American-Lincoln®

6150
POWER SWEEPER

Instructions for Use

READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it.

All directions given in this book are as seen from the operator's position at the rear of the machine.

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English

TABLE OF CONTENTS

MACHINE SPECIFICATIONS **4**
MACHINE DIMENSIONS **6**
MACHINE PREPARATION **7**
SAFETY PRECAUTIONS **8**
SWEEPER CONTROLS/INSTRUMENTS **10**
HORN BUTTON 10
LIGHT SWITCH 10
GLOW PLUG SWITCH 10
CHOKE CONTROL 10
KEY SWITCH 11
THROTTLE 11
FUEL GAUGE 11
FOOT BRAKE 12
PARKING BRAKE 12
FOOT PEDAL 12
FORWARD MOVEMENT 12
BACKWARD MOVEMENT 12
WARNING BANK 13
ENGINE TEMP LIGHT 13
ENGINE OIL PRESSURE LIGHT 13
CHARGING SYSTEM LIGHT 13
DUST CONTROL LIGHT 13
HOPPER TEMPERATURE LIGHT 13
DUMP DOOR LIGHT 13
SEAT POSITION ADJUSTMENT 14
TURN SIGNALS (OPTION) 14
BACK-UP ALARM 14
BATTERY CONDITION METER 14
FILTER SHAKER SWITCH 15
DUST CONTROL SWITCH 15
BROOM CONTROL LEVER 15
SIDE BROOM LEVER 16
SIDE BROOM ADJUSTMENT 16
MAIN BROOM LEVER 16
MAIN BROOM ADJUSTMENT 16
HOPPER DOOR LEVER 17
HOPPER LIFT LEVER 17
DEBRIS DOOR 17
DUST BAFFLE 18
HOPPER SAFETY ARM 18
HOPPER FILTER COMPARTMENT COVER 18
FILTER PANEL LATCH 19
HOPPER TEMPERATURE SENSOR 19
ENGINE COMPARTMENT LATCH 19
HYDRAULIC RESERVOIR LEVER SIGHT GAUGE 20
MAIN BROOM COMPARTMENT DOORS 20
SEAT COMPARTMENT COVER 20
SEAT COMPARTMENT LATCH 21
BATTERY CHARGING CONNECTOR 21
HELPFUL HINTS FOR SWEEPING 22

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OPERATING INSTRUCTIONS 23
BATTERY MACHINE OPERATION 23
GAS/LP MACHINE OPERATION 23
INSTRUCTIONS BEFORE STARTING 24
PRE-START CHECK LIST 24
TO START BATTERY MACHINES 24
TO CHARGE BATTERIES 24
TO START GAS ENGINE 24
TO START PROPANE ENGINE 24
TO START DIESEL ENGINE 25
TO DRIVE SWEEPER FOR TRANSPORT 25
TO SWEEP WITH THE MACHINE 25
TO STOP SWEEPING 25
TO EMPTY DEBRIS HOPPER 26
POST OPERATION CHECKLIST 26
BATTERY CHARGING INSTRUCTIONS 26-27
MACHINE STORAGE 27
SERVICE CHART 28
SERVICE INSTRUCTIONS 28
MAIN BROOM 30
TO CHECK THE MAIN BROOM SWEEP PATTERN 30
TO ADJUST THE MAIN BROOM HEIGHT 30
TO REPLACE THE MAIN BROOM 30
MAIN BROOM LEVEL ADJUSTMENT 30
SIDE BROOM 31
TO CHECK THE SIDE BROOM SWEEP PATTERN 31
TO ADJUST THE SIDE BROOM HEIGHT 31
TO CHANGE THE SIDE BROOM 31
HOPPER 32
TO CLEAN HOPPER 32
TO CHECK HOPPER SEALS 32
DUST CONTROL FILTER 32
TO CHECK THE DUST CONTROL FILTER 32
TO CLEAN THE DUST CONTROL FILTER 32
TO CHANGE THE DUST CONTROL FILTER 33
DUST FLAPS 33
TO CHECK THE DUST FLAPS 33
TO ADJUST THE DUST FLAPS 33
BATTERY SERVICE 34
BATTERY CHARGING INSTRUCTIONS 34
TO CHARGE THE MOTIVE POWER BATTERIES 35

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SPECIFICATIONS

SWEEP PATH 50 inches (127 cm) with single side broom
62 inches (157.5 cm) with optional dual side brooms

TRAVEL SPEED

Gas/LP	Diesel	Battery
0 - 5 MPH	0 - 8 MPH	0 - 4 MPH

TURNING RADIUS

Left	53.5 inches (136 cm)
Right	82.0 inches (208 cm)

AISLE WIDTH FOR U-TURN 90 inches (229 cm)

MAXIMUM RATED CLIMB

Gas/LP	8°
Diesel	8°
Battery	6°

DIMENSIONS

Length 87 inches (221 cm)

Width	51.50 inches (131 cm)
Height	53.00 inches (135 cm)
Height w/Overhead Guard	77.75 inches (197.5 cm)

WEIGHT

Gas/LP	2100 lbs. (955 kg)
Diesel	2100 lbs. (955 kg)
Battery	3420 lbs. (1555 kg)

POWER SOURCE

Gas/LP	20 HP (14.933 kw), 2-cylinder liquid-cooled Kawasaki 24 HP (17.9 kw), 3-cylinder liquid-cooled Kubota
Diesel	20 HP (14.933 kw), 3-cylinder liquid-cooled Kubota
Battery	36 volt system, 2.5 HP (1.87 kw) series wound drive motor

ELECTRICAL SYSTEM

Gas/Diesel/LP	12 volts
Battery-Powered	36 volts

HYDRAULIC SYSTEM

GAS/DIESEL/LP POWERED MACHINES

The engine furnishes power through a coupling to a fixed displacement hydraulic gear pump. The pump provides controlled oil flow to various operator controlled hydraulic valves which supply hydraulic power to the hopper dump system and motors on the rear wheel, main broom, side broom, and vacuum fan. Hydraulic system is protected by two filters, 100 micron and a 25 micron.

BATTERY POWERED MACHINES

The battery powered electric motor furnishes power through a coupling to a fixed displacement hydraulic gear pump. The pump provides controlled oil flow to various operator controlled hydraulic valves which supply hydraulic power to the hopper dump system and motors on the main broom and side broom. Hydraulic system is protected by two filters, 100 micron and 25 micron.

STEERING

Fully Power Steering with single rear wheel steer.

BRAKES

Foot operated drum brakes on front wheels. Hand operated parking brake. When engaged, parking brake locks the brake foot pedal in the down position.

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MAIN BROOM

One-piece, disposable unit with poly core. Standard bristle type is Proex fiber. A variety of bristle types are available. No tool broom installation or removal easily completed within five (5) minutes. Broom position can be placed into the free float or restricted down position. Broom pattern is adjusted by control in operator's compartment. Offers excellent performance on rough or uneven surfaces.

Length	36 inches (91.5 cm)
Diameter	14 inches (35.5 cm)
Bristle Length	3.25 inches (8.26 cm)

SIDE BROOM

Rotary, disposable type. May be raised, lowered, and adjusted using controls in operator's compartment. Broom is retractable to prevent damage caused by hitting walls and racks. No tool broom installation or removal.

Diameter	21 inches (53.4 cm)

FILTER SYSTEM

One panel filter offers a total filter area of 78 square feet (7.25 m^2) and controls dust particles down to two microns in size utilizing pre-clean baffling system. No tool panel filter installation or removal in less than two minutes. Panel filter cleaned utilizing patented 'beater bar' shaker controlled by the operator. A high volume, 9 inch vacuum fan provides excellent dust control. Filter can be washed.

HOPPER

Constructed of steel, hopper provides adequate ground clearance and floating flaps.

Capacity	10 $ft.^3$ (283 L)
Weight Capacity	700 lbs. (317.5 kg)

BROOMS CONTROLS

A separate lever raises and lowers the main broom which allows it to be set in the restricted down or free float position. Side broom raise/lower level.

DUMPING SYSTEM

Variable dump empties debris from ground level up to 60 inches.

CONTROLS

A single foot pedal controls travel speed, forward and reverse direction. Equipped with hopper raise/lower lever, brooms and vacuum on/off lever, filter shaker and horn buttons, key start ignition, battery condition meter (battery machines only), hour meter, fuel gauge (gas machines only), hydraulic oil level, sight gauge and throttle control.

TIRES	**Gas/LP/Diesel**	**Battery**
Front	Two 16" Pneumatic	Two 16" Solid Urethane
Rear	One 16" Pneumatic	One 16" Solid

STANDARD EQUIPMENT

Headlights	Dash Lights	Taillight
Timed Shaker System	Transport Tie Down Cutouts	Adjustable Seat
Hydraulic Oil Cooler		

OPTIONAL EQUIPMENT

Overhead Guard	Non-Marking Tires Solid Pneumatic	
Vacuum Wand	Turn Signals	Brake Light
Clogged Filter Indicator	Vacuumized Right Curb Broom	Strobe Amber Light
Dual Curb Brooms	Arm Rests & Seat Belts	Safety Tape
Stainless Steel Hopper	Hopper Fire Safety Sensor	Back-Up Alarm
Solid Cushion Tires	Wet Sweep By-Pass	Rear Work Light

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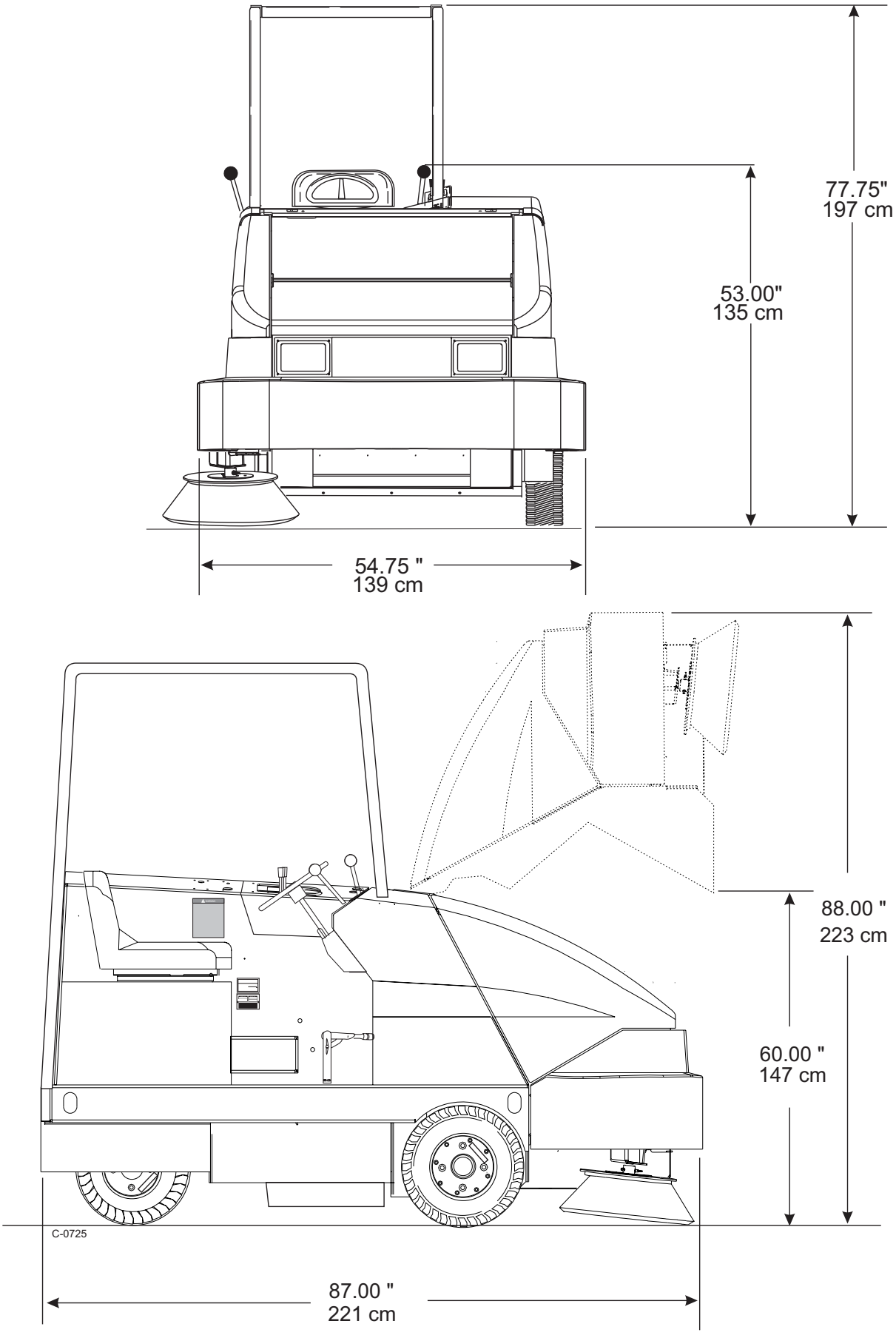
MACHINE DIMENSIONS



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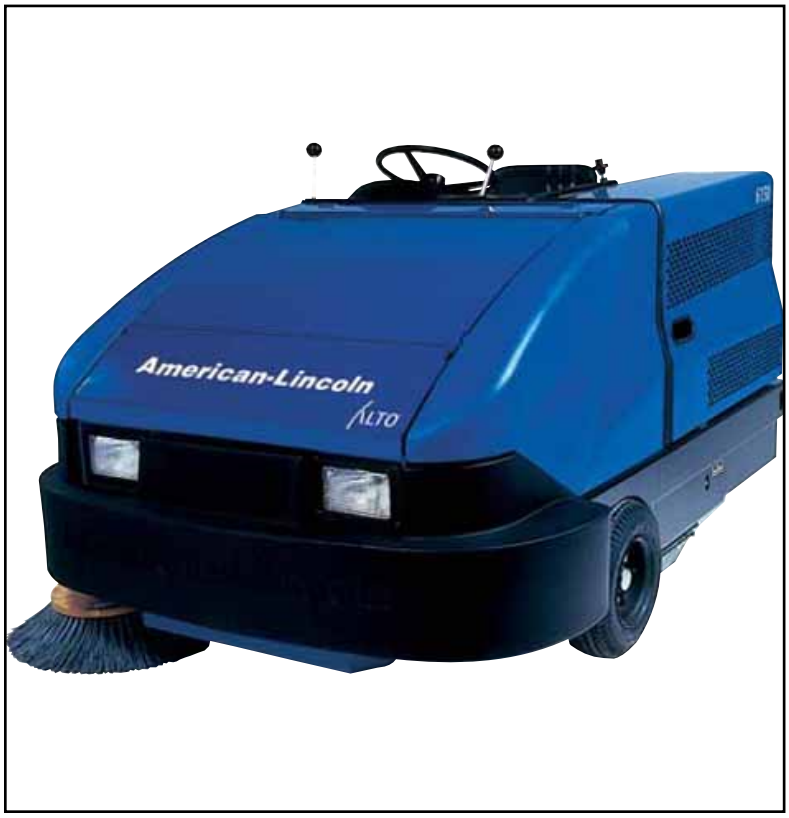

YOUR SWEEPER HAS BEEN SHIPPED COMPLETE, BUT DO NOT ATTEMPT TO OPERATE WITHOUT READING AND FOLLOWING THESE INSTRUCTIONS.

PREPARATION

1. Uncrate the sweeper and carefully remove packing material.
2. Inspect the battery connections.
3.^ Fill fuel tank with appropriate fuel.
3.* Install motive power batteries.
4.* Charge batteries using instructions provided with charger. (See Battery Charging Instructions)

⚠ WARNING

Risk of personal injury. Never fill fuel tank while engine is running. Always be sure gasoline container and sweeper are electrically connected prior to pouring fuel. This can easily be done by providing an insulated wire (Permanently attached to the container) with a battery clip attached to the other end.

4.^ Check engine crankcase oil level.
5.^ Check radiator coolant level. Permanent type antifreeze is added at the factory to provide protection to approximately -35° F (-2° C). To retain this level of protection always add 1/2 part water to 1/2 part antifreeze.
6. Check fluid level in hydraulic reservoir which is located in the engine compartment. The hydraulic reservoir is full when fluid can be seen in the sight glass on the side of the reservoir. To get an accurate reading the hopper must be in the “DOWN” position. If fluid is required add HYDRAULIC FLUID ONLY. Use Ford Automatic Transmission Fluid Type “F”.

^For Gas/LP/Diesel Machines Only
*For Battery Machines Only

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SAFETY PRECAUTIONS

THE FOLLOWING STATEMENTS ARE USED THROUGHOUT THIS MANUAL AS INDICATED IN THEIR DESCRIPTIONS:

⚠ DANGER
To warn of immediate hazards which will result in severe personal injury or death.

⚠ WARNING
To warn of hazards or unsafe practices which could result in severe personal injury or death.

⚠ CAUTION
To warn of hazards or unsafe practices which could result in minor personal injury.

ATTENTION
To warn of unsafe practices which could result in extensive equipment damage.

NOTE
To give important information or to warn of unsafe practices which could result in equipment damage.

THE FOLLOWING INFORMATION SIGNALS POTENTIALLY DANGEROUS CONDITIONS TO THE OPERATOR OR EQUIPMENT. READ THIS MANUAL CAREFULLY. KNOW WHEN THESE CONDITIONS CAN EXIST. THEN, TAKE NECESSARY STEPS TO TRAIN MACHINE OPERATING PERSONNEL.

FOR THE SAFE OPERATION OF THIS MACHINE, READ AND UNDERSTAND ALL WARNINGS, CAUTIONS AND NOTES.

⚠ WARNING
Machines can ignite flammable materials and vapors. Do not use with or near flammables such as: gasoline, grain dust, solvents and thinners.

⚠ WARNING
Heavy machinery. Improper use can cause personal injury.

⚠ WARNING
Operate only when lids, doors, and access panels are securely closed.

⚠ WARNING
Use care when reversing machine in confined area.

⚠ WARNING
When servicing the machine disconnect the battery first to prevent possible injury.

⚠ WARNING
When working on the machine, empty hopper, disconnect battery, clear area of people and obstructions, use additional people and proper procedures when lifting the machine.

⚠ WARNING
Always empty the Hopper and Disconnect Battery before doing maintenance.

⚠ WARNING
You must have training in the operation of this machine before using it. READ THE INSTRUCTION BOOK.

⚠ WARNING
Do not operate this machine unless it is completely assembled.

⚠ WARNING
Do not use this machine as a step or furniture.

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⚠ WARNING

Be careful when operating the machine on a ramp or incline. Always move slowly on a ramp. Do not turn this machine on a ramp. Do not stop and leave this machine on a ramp.

⚠ WARNING

Stop and leave this machine on a level surface. When you stop the machine, put the power switch in the "OFF" position and Engage the parking brake.

⚠ WARNING

To prevent injury, and damage to the machine, do not lift the machine or move it to an edge of a stair or loading dock.

⚠ WARNING

Lead acid batteries generate gases which can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING. Charge batteries only in area with good ventilation.

⚠ WARNING

Always wear eye protection and protective clothing when working near batteries. Remove all jewelry. Do not put tools or other metal objects across the battery terminals, or the tops of batteries.

⚠ WARNING

Maintenance and repairs must be done by authorized personnel only. Tighten all fasteners. Keep adjustments according to the specifications given in the service manual for the machine. Keep the electrical parts of the machine dry. For storage, keep the machine in a building.

⚠ WARNING

Make sure that all labels, decals, warnings, cautions and instructions are fastened to the machine. Get new labels and decals from American Lincoln.

⚠ WARNING

To maintain stability of this sweeper in normal operation, the counterweights, over-head guard, rear bumper guard or any similar equipment installed by the manufacturer as original equipment, should never be removed. If it becomes necessary to remove such equipment for repair or maintenance. This equipment must be reinstalled before the sweeper is placed back in operation.

⚠ WARNING

The hopper could lower unexpectedly and cause personal injury. Engage the hopper safety arm before working under the hopper.

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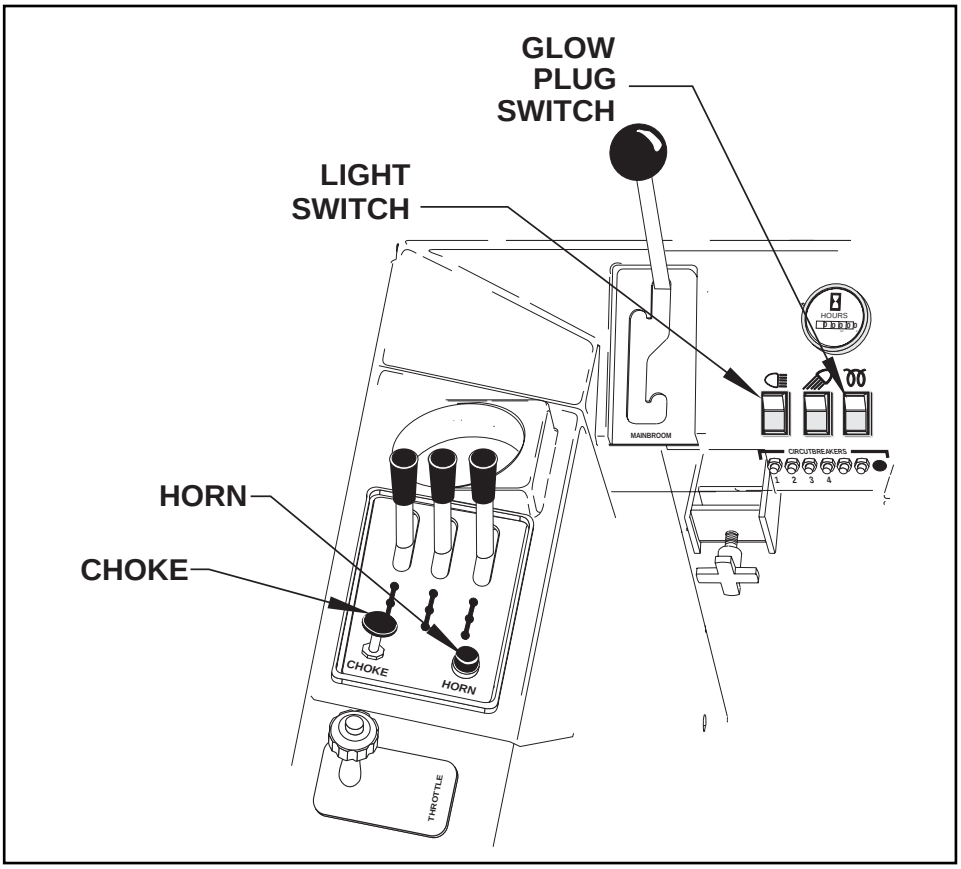

C0701A FIGURE 1

HORN BUTTON
The horn button is located on the left side console next to the choke control. Push the button to sound the horn. The horn button is always active.

LIGHT SWITCH
The light switch is located on the instrument panel and controls the headlights, taillights and instrument panel lights. To turn on the lights press the upper portion of the switch. The upper potion of the switch will illuminate to indicate the lights are “ON”. The light switch is always active.

GLOW PLUG SWITCH (Diesel Only)
The glow plug switch is a momentary type rocker switch that is located on the instrument panel and is used to start the diesel engine. It should be noted that under no circumstances should Ether or other starting aids be used in conjunction with the glow plugs. To prevent damage to the glow plug switch, do not use for more than 60 seconds. They key switch must be placed in the “ON” position before using the glow plug switch.

CHOKE CONTROL
The choke control is located on the left side console and is used to aid in starting the engine. The choke governs the mixture of air and fuel during the combustion cycle of the engine operation. The choke should be pulled up during the start of the engine and then gradually pushed back down after engine warm up.

To turn on the choke for “Cold” starting, pull “UP” on the control.
To turn off the choke once engine has been started gradually push the control “DOWN”.

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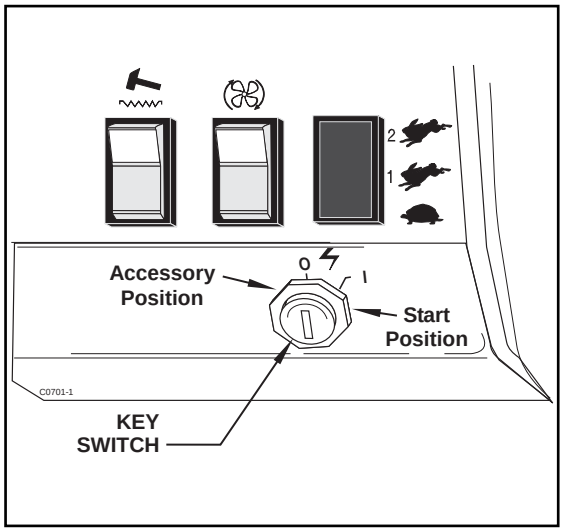


C0701-1 FIGURE 2

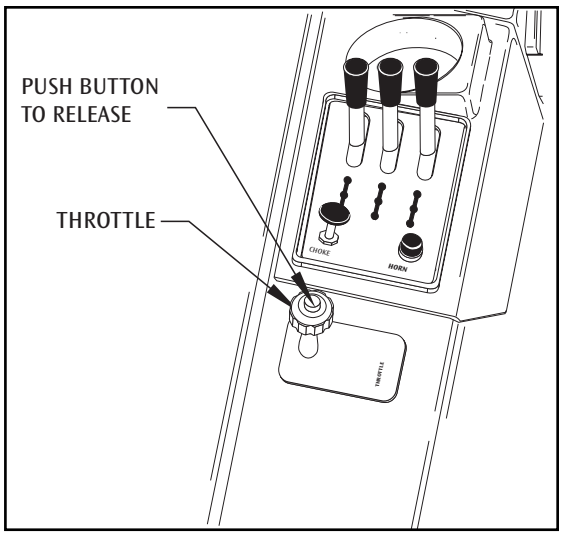
KEY SWITCH
The keyed ignition switch is located on the instrument panel to the right of the steering column. The key switch is a four position switch that controls power to the sweeper systems and accessories.

BATTERY POWERED MACHINES
The “O ” position will shut off power to the machine propulsion and sweeping systems.

The “I” position provides power to all sweeper systems and accessories.

GAS/DIESEL/LP POWERED MACHINES
The “O” position will shut off the engine.

The “I” position provides power to all sweeper systems and accessories.



C0702 FIGURE 3

THROTTLE
The engine speed is controlled by a locking push-pull control which is located on the operator’s compartment side console.

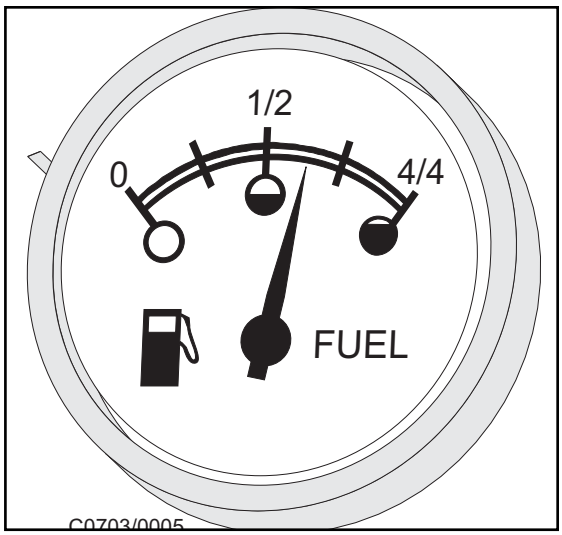
The position of the throttle determines the operating speed of the engine. The position is variable from idle to max engine speed and may be adjusted to suit operating conditions.

The locking feature of the engine throttle control consists of a rubberized push button that unlocks the control for adjustment.

Push down on the button while positioning the control to the desired setting, then release the button to unlock the throttle in place.

Pull up on the throttle to increase engine speed.

Push down on the throttle to decrease engine speed.



C0703 FIGURE 4

FUEL GAUGE
The fuel gauge is located on the instrument panel and indicates the level of fuel in the tank. The fuel gauge is powered by the key switch. The key switch must be in the “I” position for the fuel gauge to work. The fuel gauge is not included on machines that use Battery or Liquid Propane fuel.

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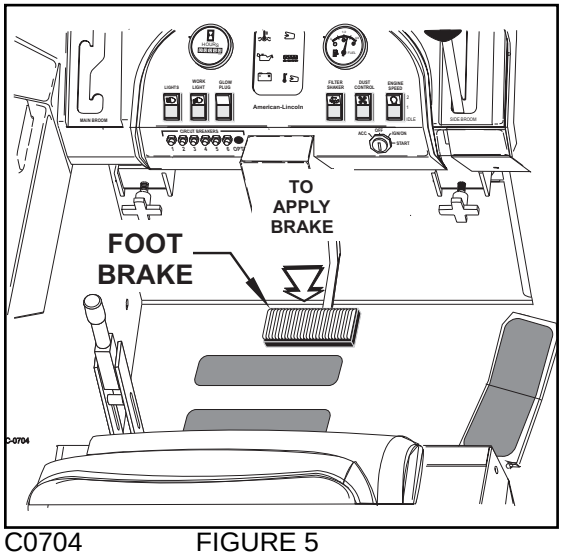
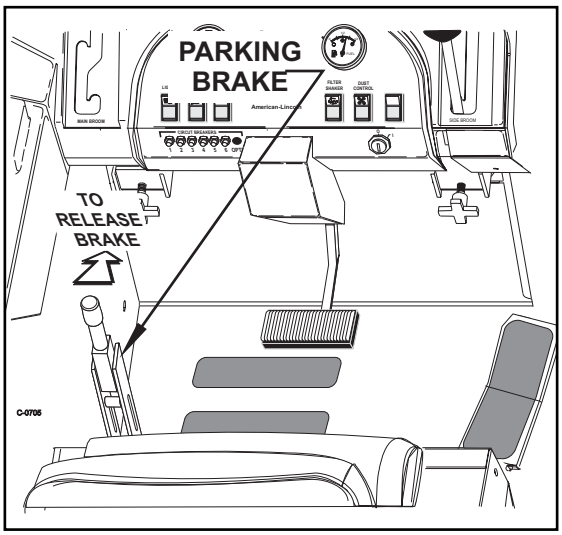
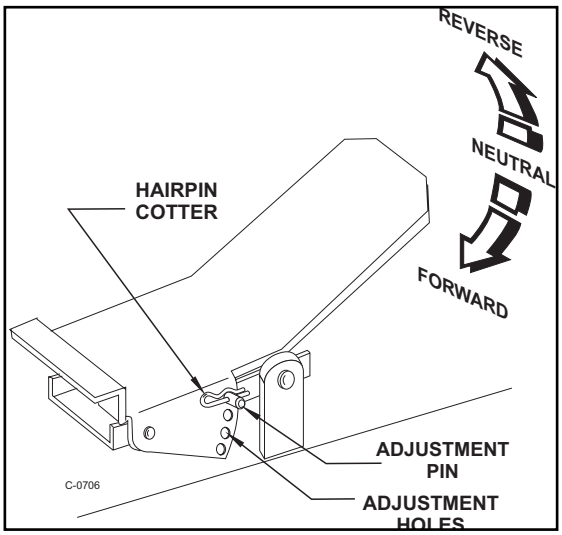


C0704 FIGURE 5



C0705 FIGURE 6



C0706 FIGURE 7

FOOT BRAKE

The foot brake pedal is located on the floor of the operator's compartment to the left of the directional control pedal.

To stop, apply foot pressure to the brake pedal.

PARKING BRAKE

The parking brake lever is located on the operator's compartment left side panel near the floor. When engaged the parking brake "locks" the foot pedal in the down position.

- To engage the parking brake, place the lever in the upright position.
- To disengage the parking brake, move the lever forward.
- To Adjust The Parking brake "Grab" Turn the knob on the top of the lever.
- To increase "Grab" Turn the knob in a clockwise direction.
- To decrease "Grab" Turn the knob in a counter-clockwise direction.

FOOT PEDAL

The Foot Pedal is located on the floor of operator's compartment to the right of the brake pedal. The foot pedal provides control of direction/speed and has an automatic safety feature that limits foot pedal travel while the hopper is raised. The pedal height is adjustable to provide for operator comfort.

TO GO FORWARD: Place pressure on the upper portion of the pedal. Speed increases when additional pressure is placed on the pedal.

TO GO BACKWARD: Put pressure on the lower portion of the pedal. Speed increases when additional pressure is placed on the pedal.

-To increase braking action while sweeper is moving forward, gently put pressure on the lower portion of the pedal.

-To Increase braking action while traveling in reverse, gently put pressure on the upper portion of the pedal.

To adjust the foot pedal height for operator comfort

1. Remove the hairpin cotter from the adjustment pin.
2. Remove the adjustment pin from the foot pedal assembly.
3. Align the holes in the lower bracket with one of the four adjustment holes on the foot pedal to set the foot pedal height.
4. With the holes aligned at the desired height, insert the adjustment pin
5. Reinstall the hairpin cotter.

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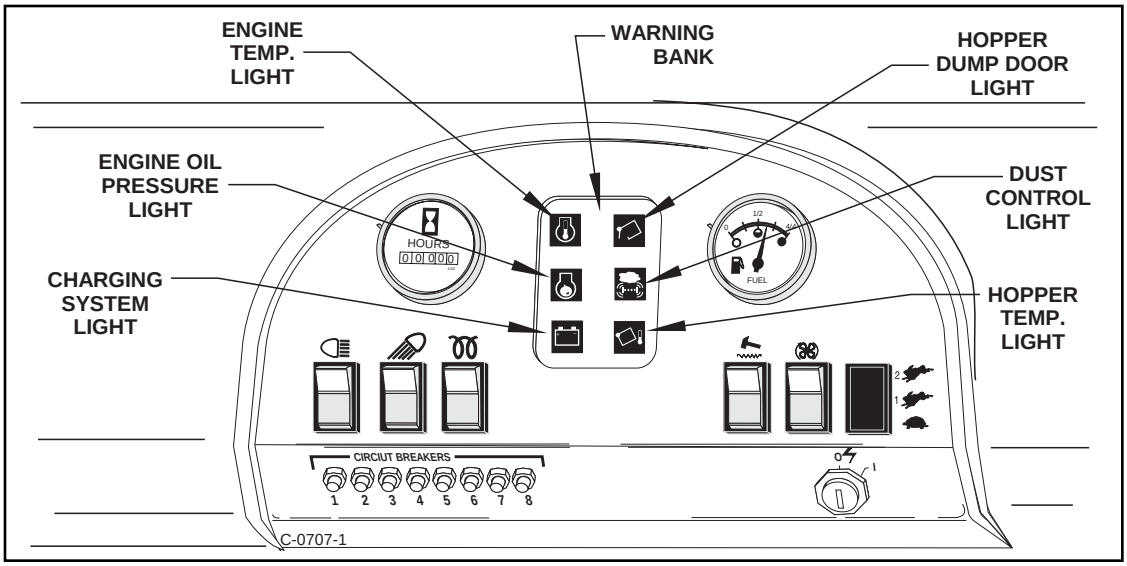

C0707-1 FIGURE 8

WARNING BANK

The Warning Bank is located on the instrument panel and provides the operator with six fault/status indicators for engine and sweeper systems. The Operator should monitor the indicators while sweeping. It is very important that the operator be familiar with the meaning of each indicator.

ENGINE TEMP LIGHT

The engine temperature light illuminates to indicate an engine cooling system fault. When this occurs the operator must turn off the sweeper immediately and have the cooling system serviced by a qualified service technician.

ENGINE OIL PRESSURE LIGHT

When the oil pressure drops below approximately 5 psi an automatic protection circuit shuts down the engine and illuminates the light to indicate low engine oil pressure. When this occurs have the sweeper serviced by a qualified service technician.

CHARGING SYSTEM LIGHT

The charging system light illuminates to indicate a charging system fault. When this occurs the sweeper charging system is not working properly and must be serviced by a qualified service technician.

DUST CONTROL LIGHT (option)

The Dust Control Light Illuminates to indicate that the dust control filter is clogged. When this occurs, stop sweeping and use the filter shaker to clear dirt and debris from the filter. After using the filter shaker continue sweeping.

HOPPER TEMPERATURE LIGHT

When the temperature of the air moving through the dust control system in the hopper exceeds 140° F, an automatic protection feature shuts down the dust control fan and illuminates the hopper temperature light. When this occurs shut down the sweeper and carefully investigate for a possible fire in the hopper. The temperature switch must be manually reset.

DUMP DOOR LIGHT

The dump door light will illuminate when the dump door is not fully open. The light warns the operator to open the hopper dump door completely before sweeping. Do not sweep when the light is illuminated.

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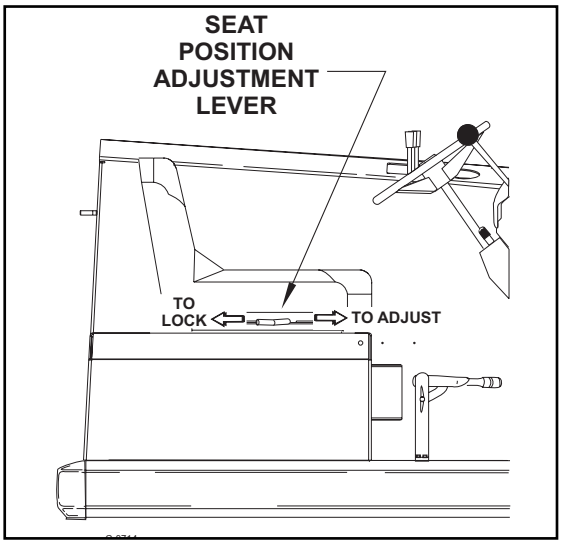
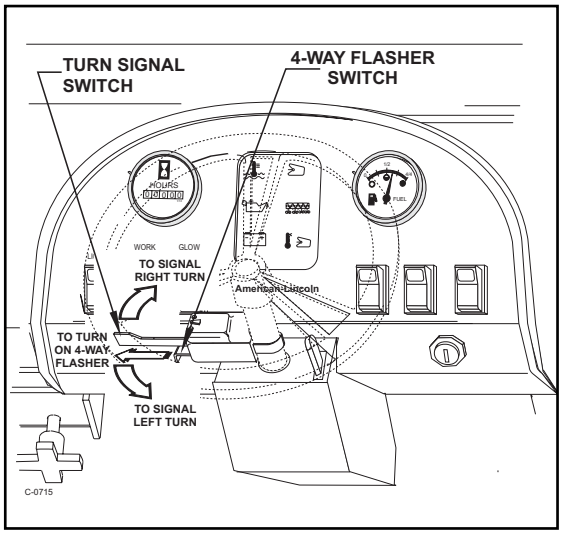


C0714 FIGURE 9

SEAT POSITION ADJUSTMENT

The seat adjustment lever is located on the right side of the seat base. The lever is spring loaded to the “LOCK” position.

To adjust the seat, push “FORWARD” on the lever and move seat to desired position then release the lever to “LOCK” the seat in place.



C0715 FIGURE 10

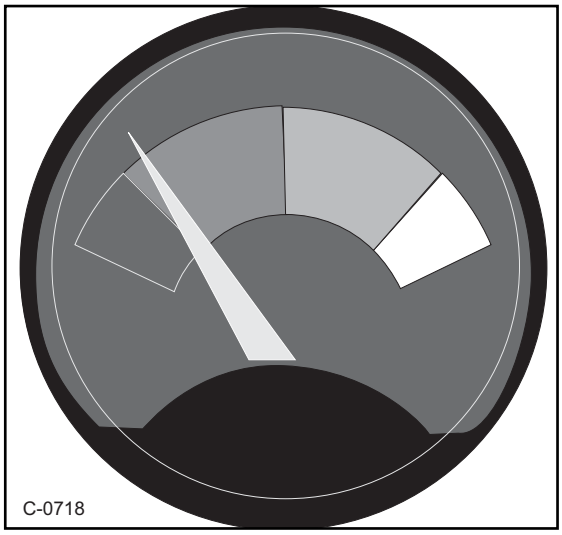
TURN SIGNALS - 4 WAY (OPTION)

The turn signal switch is located on the steering column and functions the same as a typical automotive turn signal. The operator must return the lever to the centered position after the turn has been completed.

-To signal a right hand turn, move the lever to the “FORWARD” position.

-To signal a left hand turn, move the lever to the “BACKWARD” position.

-To use the 4-way Flashers pull out on the turn signal lever.



C0718 FIGURE 11

BACK UP ALARM (OPTION)

The backup alarm is activated by a switch in the foot pedal and automatically emits a loud audible noise when the machine is driven in reverse.

BATTERY CONDITION METER (Battery Power Only)

The battery condition meter is located on the right side of the instrument panel. The condition meter indicates the level of charge in the batteries. The batteries are sufficiently charges when the needle stays in the green area on the gauge while the machine is being operated.

Charge the batteries when the needle drops into the red zone while operating the machine,

Do not operate the machine if the needle stays in the red zone. Operating the sweeper with discharges batteries with degrade battery life.

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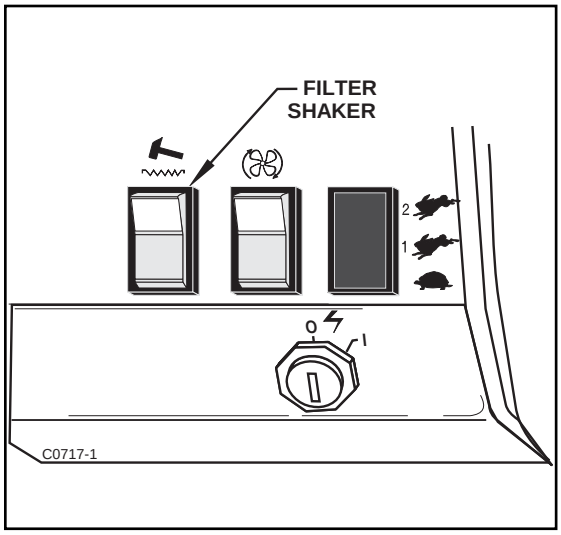


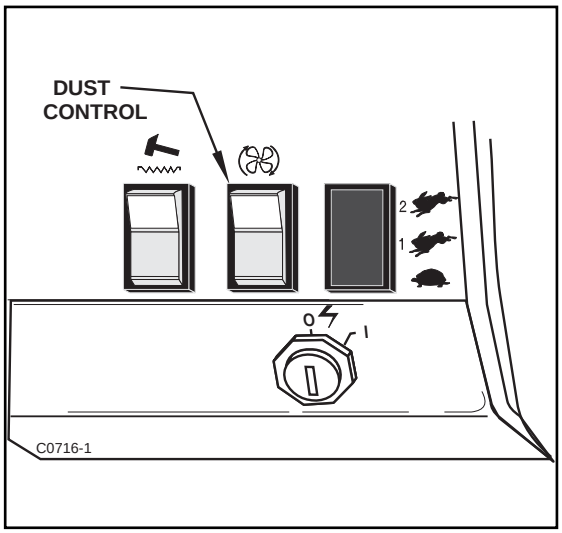
C0717-1 FIGURE 12

FILTER SHAKER SWITCH

The filter shaker switch is located on the instrument panel below the fuel gauge. This is a momentary switch that will activate the filter shaker motors for 20 to 30 seconds to clear the dust control filter. The impeller fan will stop when the filter shaker has been activated.

The filter shaker will only operate with the hopper in the “DOWN” position. Use the filter shaker to clear the filter when the dust control light on the warning bank illuminates and just before dumping the hopper.

To activate the filter shaker press the upper portion of the filter shaker switch momentarily and release. The filter shaker will operate for 20 to 30 seconds.



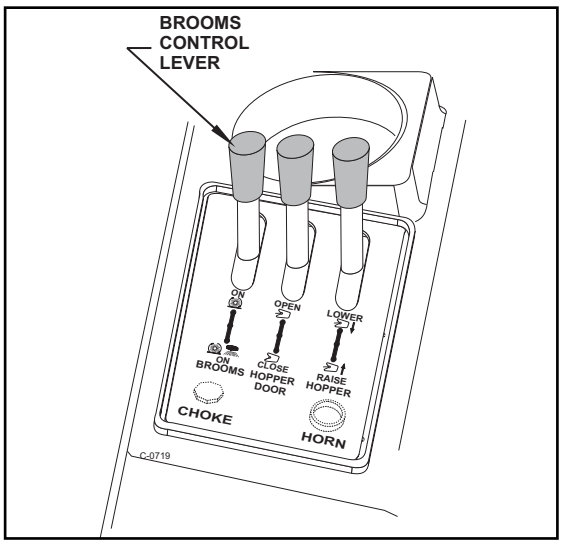
C0716-1 FIGURE 13

DUST CONTROL SWITCH

The dust control is a two position switch that is located on the instrument panel next to the filter shaker switch. The switch controls the vacuum fan in the dust control system.

To turn on the dust control system for “NORMAL” Sweeping, press on the top portion of the switch.

To Turn off the dust control system for sweeping in wet conditions, press on the lower portion of the switch. This will prevent the filter from being damaged by water pickup while sweeping.



C0719 FIGURE 14

BROOMS CONTROL LEVER

The brooms control lever is located on the operator’s compartment center console. The lever is a three position hydraulic valve that controls hydraulic power to the main broom and side broom.

⚠ WARNING

To prevent injury, Do not turn on the brooms with the hopper raised.

To turn on the main broom only, move the lever to the forward position.

To turn on the main broom and the side broom, move the lever fully backwards.

To turn off the brooms and provide hydraulic power to the hopper lift system place the lever in the center position.

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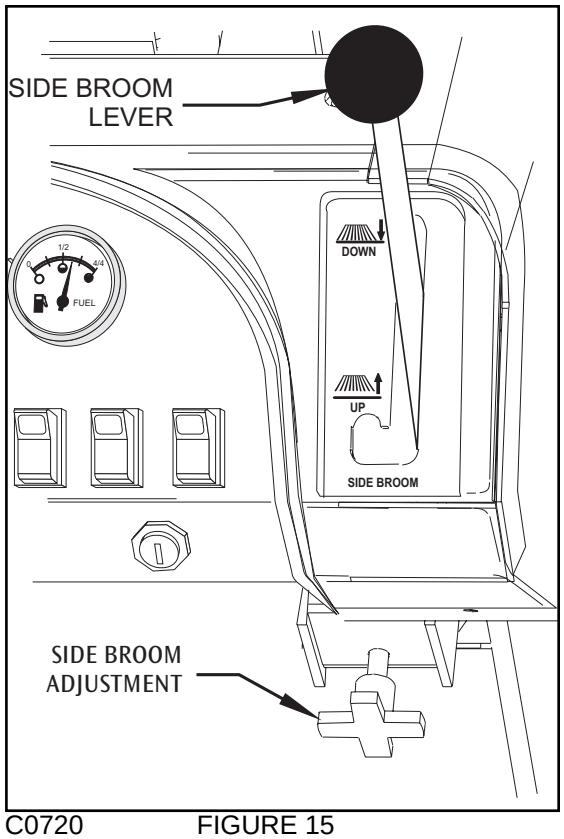


C0720 FIGURE 15

SIDE BROOM LEVER

The side broom lever is located on the right side of the instrument panel. The side broom lever raises and lowers the side broom. Use the brooms lever on the operator's center console to turn on the side broom.

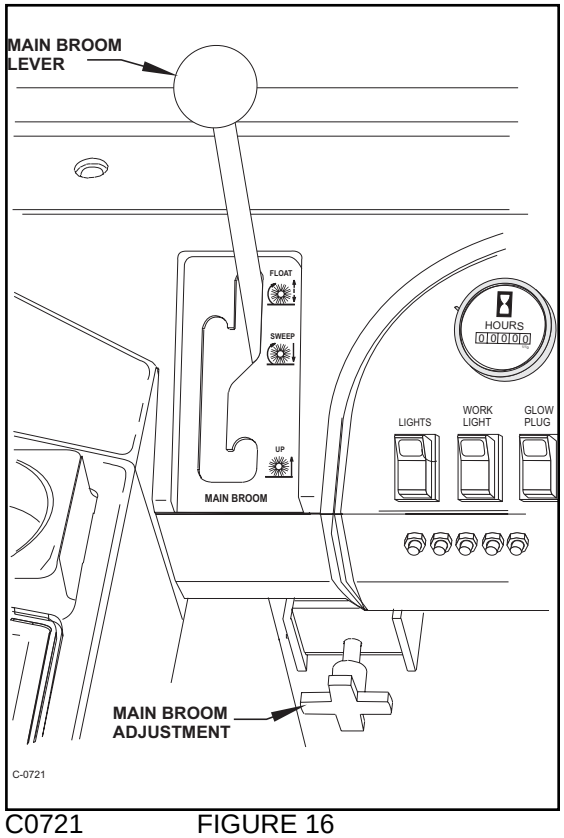
To raise the side broom, pull the lever back into the "UP" position.

To lower the side broom, move the lever out of the detented "UP" position and move it forward to the "DOWN" position.

SIDE BROOM ADJUSTMENT

The side broom lever has an adjustment for changing the sweep height to compensate for broom wear. The side broom adjustment is located under the right side of the instrument panel.

To Adjust the side broom height turn the threaded knob.



C0721 FIGURE 16

MAIN BROOM LEVER

The main broom lever is located on the left side of the instrument panel. The main broom lever has three positions and controls the main broom sweep height. Use the brooms lever on the operator's center console to turn on the main broom.

To lower the main broom, grasp the lever and move it to the left out of the "UP" position and place in the "SWEEP" or "FLOAT" position.

The "SWEEP" position is used for normal sweeping and should be used under most sweeping conditions.

The "FLOAT" position is used for sweeping very uneven surfaces only. Using the Float position will cause premature wear on the main broom if used under normal operating conditions for extended periods of time.

MAIN BROOM ADJUSTMENT

The main broom lever has an adjustment for changing the sweep height to compensate for broom wear. The main broom adjustment is located under the left side of the instrument panel.

To Adjust the main broom height turn the threaded knob.

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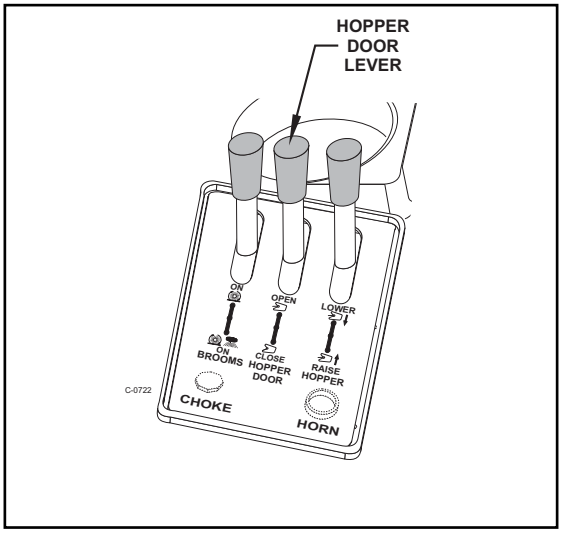
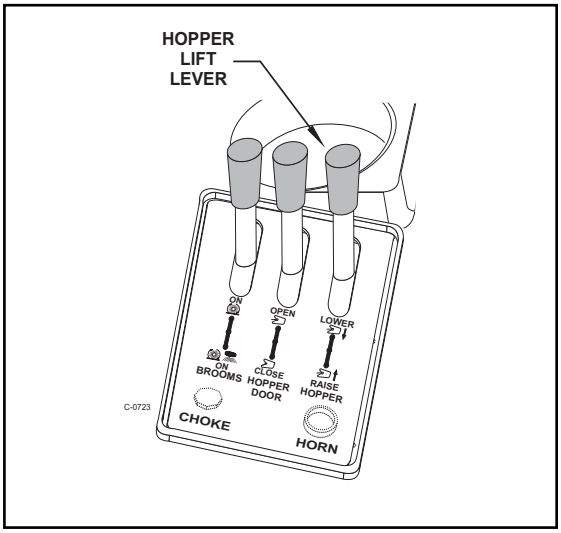
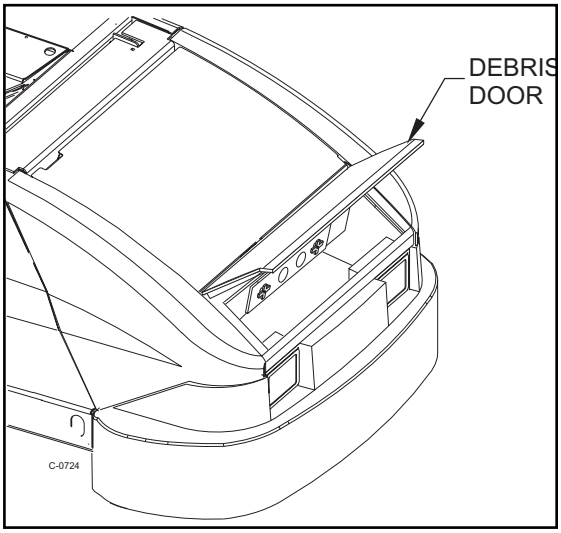


C0722 FIGURE 17



C0723 FIGURE 18



C0724 FIGURE 19

HOPPER DOOR LEVER

The hopper door lever is located on the operator's compartment center console and is used to close and open the hopper dump door. The lever is a three position hydraulic valve that is spring loaded to the center position which "HOLDS" the hopper door in position.

NOTE

To provide hydraulic power to the hopper controls, the broom control lever must be in the center "Neutral" Position

To ensure the door is fully open while sweeping, monitor the Hopper Dump Door light on the Warning Bank . The light will illuminate when the door is not fully open.

To open the hopper dump door for sweeping or dumping, push the lever forward in the "OPEN" direction until the hopper dump door light goes out.

To close the hopper dump door for dumping or transporting, pull the lever fully back in the "CLOSE" direction and hold for 3 seconds or until you hear the door close.

HOPPER LIFT LEVER

The hopper lift lever is located on the operator's compartment center console. The lever is a three position hydraulic valve that controls the operation of the hopper lift system. The lever is spring loaded to the center position which stops hopper movement and "HOLDS" the hopper at the present position.

NOTE

To provide hydraulic power to the hopper controls, the broom control lever must be in the center "Neutral" Position

To raise the hopper for dumping, move the lever back to the "RAISE" position and hold until the hopper reaches the desired height, then release.

⚠ WARNING

To prevent injury, Do not turn on the brooms with the hopper raised.

To lower the hopper after dumping, move the lever forward to the "LOWER" position until the hopper is fully lowered and seated in the sweeper, then release.

DEBRIS DOOR

The hopper debris door provides the operator with easy access to the hopper debris compartment for refuse disposal or visual inspection of the removable filter baffle and hopper debris compartment. The debris door must be closed while sweeping. Failure to close the door completely will cause poor dust control while sweeping.

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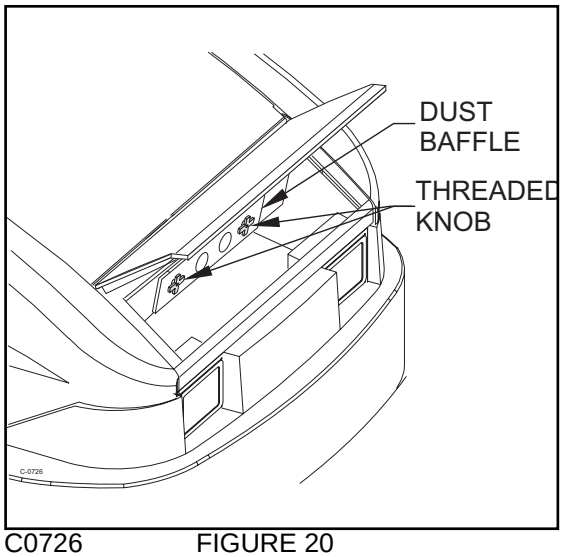
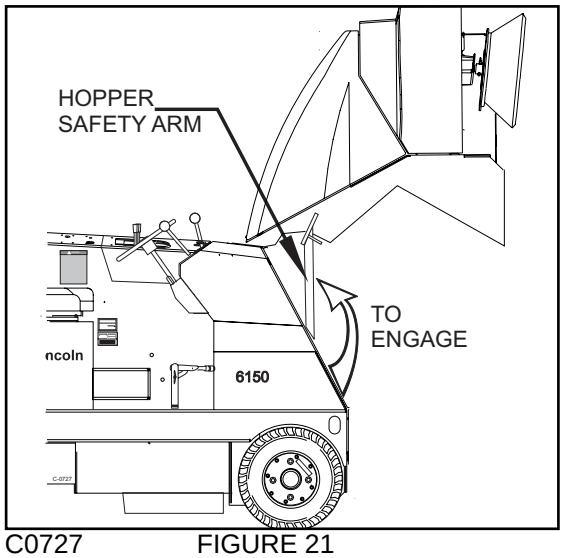
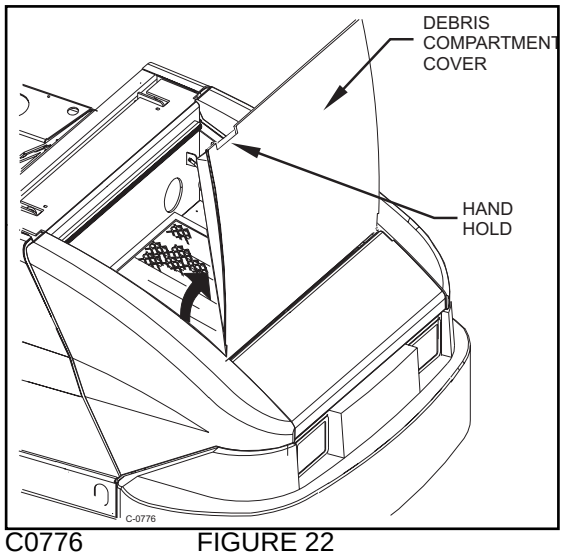


C0726 FIGURE 20



C0727 FIGURE 21



C0776 FIGURE 22

DUST BAFFLE

The dust baffle is located in the hopper and may be removed for cleaning. The dust baffle is mounted to the hopper with two threaded knobs for easy removal.

The debris door must be opened to gain access to the dust baffle.

Remove and clean the dust baffle when debris becomes lodged in the baffle passages.

To remove the baffle, turn the two threaded knobs counterclockwise and lift the baffle off the studs.

To install the baffle, position the baffle on the studs and turn the two threaded knobs clockwise.

HOPPER SAFETY ARM

The hopper safety arm is located near the right front wheel well. The safety arm will prevent the hopper from dropping unexpectedly during service/maintenance.

⚠ WARNING

The Hopper Could Drop Unexpectedly And Cause Injury. Engage The Safety Arm Before Working Under Hopper.

⚠ WARNING

For Safety Always Empty Hopper Before Servicing.

TO ENGAGE THE SAFETY ARM:

1. Empty hopper.
2. Set the parking brake.
3. Raise the hopper.
4. Lift safety arm to engage the slot on the hopper frame.
5. When work has been completed, replace the safety arm to the stowed position.

HOPPER FILTER COMPARTMENT COVER

The Hopper Filter Compartment Cover is located on the top of the hopper and opens forward for access to the filter compartment for service and inspection of the dust control filter and operational hopper temp sensor.

Use the hand hold provided to open the cover.

Inspect the cover gaskets daily. Replace any cover gaskets that show signs of deterioration. Failure to maintain the gaskets in serviceable condition will degrade dust control at the floor and will result in less than minimal sweeping performance.

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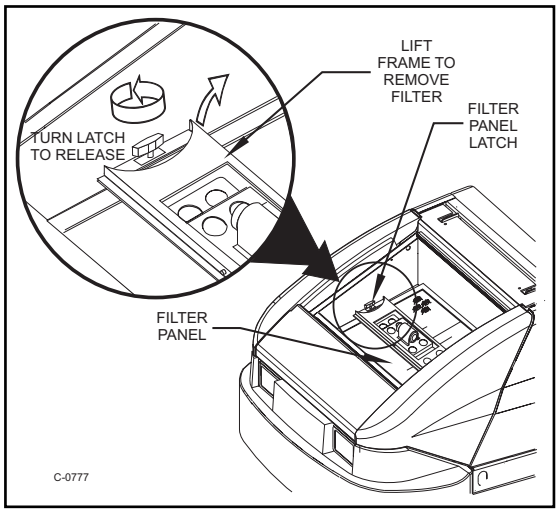


C0777 FIGURE 23

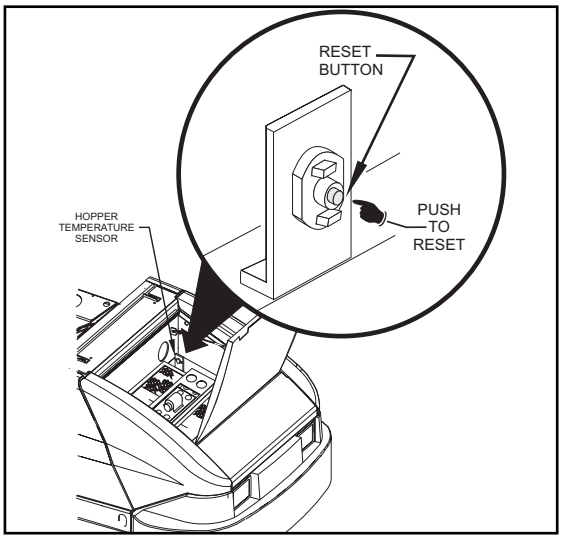
FILTER PANEL LATCH

The filter panel is located in the hopper filter compartment and will need to be removed periodically for cleaning or replacement. Removal of the filter panel requires no tools. The hopper cover must be opened to gain access to the filter compartment. The panel filter is held in place by a hinged frame and latch.

To remove the panel filter, turn the latch counter clockwise and lift the hinged frame.

The panel filter can now be lifted out and cleaned or replaced. (See “To Clean the Dust Control Filter” in this manual).

To install the replacement panel filter, lower the frame and turn the latch clockwise to lock the filter in place.



C0778 FIGURE 24

HOPPER TEMP SENSOR (OPTION)

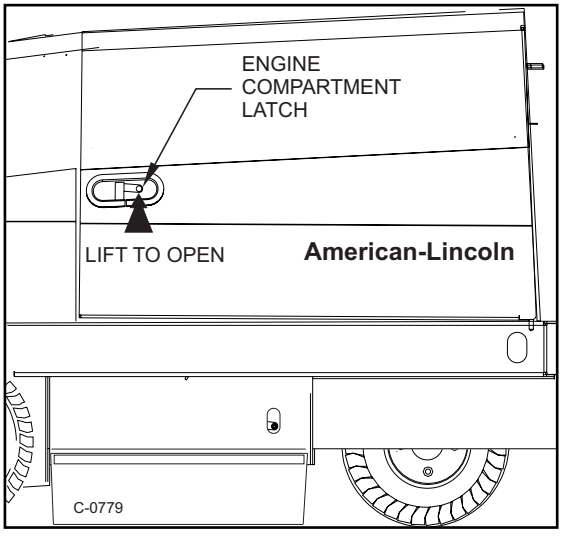
The temp sensor switch monitors the hopper air temperature near the vac fan. When the temperature of the air moving through the hopper exceeds 140ºF the switch trips which turns off the dust control fan and illuminates the hopper temp light on the warning bank.

The hopper temp sensor is a resetable thermal switch which is located in the hopper filter compartment near the vacuum fan intake.

When the hopper temp light illuminates, carefully investigate for a possible fire in the hopper.

The sensor will not reset until the temperature in the hopper has dropped below 133ºF.

To reset the temp sensor, press the reset button.



C0779 FIGURE 25

ENGINE COMPARTMENT LATCH

The engine cover encloses the entire engine, radiator and hydraulic reservoir assembly. The cover can be swung open to allow easy access to the engine and hydraulics for service or inspection.

⚠ WARNING

Operate Only When Lids, Doors, And Access Panels Are Securely Closed.

To open the cover, lift the cover latch lever up. Swing the cover open.

The cover will latch automatically when the cover is closed. After closing the engine cover, check to be certain the latch has fully engaged.

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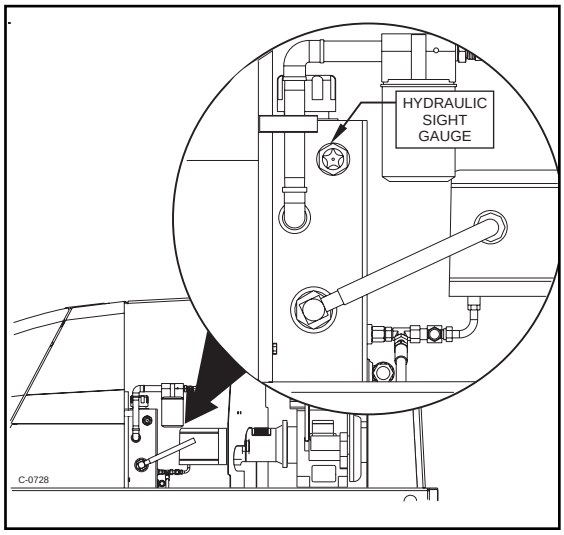
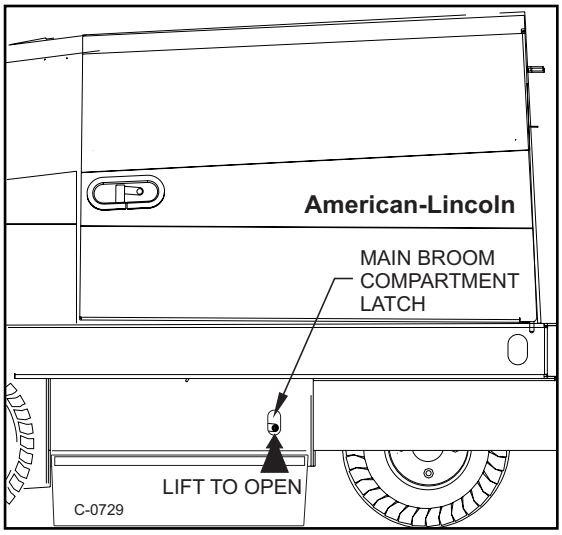
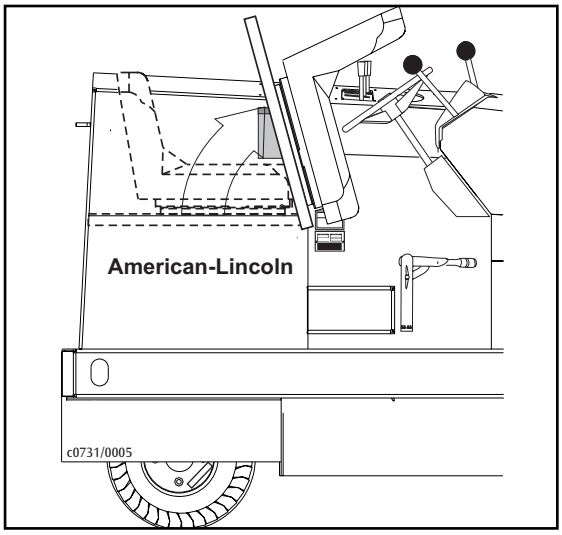


C0728 FIGURE 26



C0729 FIGURE 27



C0731 FIGURE 28

HYDRAULIC RESERVOIR LEVEL SIGHT GAUGE

The sight gauge is located on the side of the hydraulic reservoir in the engine compartment. The sight gauge is used to indicate the level of fluid in the reservoir. Fluid level must be visible in the sight gauge when the hopper is in the down position.

MAIN BROOM COMPARTMENT DOORS

The main broom compartment doors are located behind the front tires on both sides of the sweeper. The doors provide access to the main broom for service or inspection.

⚠ WARNING

Operate Only When Lids, Doors, And Access Panels Are Securely Closed.

Open the right side door to remove or replace the main broom. The right side door is an integral part of the main broom drive system and must be closed for operation.

Open the left side broom door for inspection. Check the drive hub for banding and shrink wrap which have a tendency to get tangled in the broom driver.

To open the main broom door, reach inside the hole in the door and lift up on the latch handle.

The door latch will automatically engage when the door is closed.

SEAT COMPARTMENT COVER

The seat compartment cover opens to allow easy access to various components which will need to be inspected or serviced periodically. The cover opens forward and has a safety latch to hold the cover in the open position.

⚠ WARNING

Lead acid batteries generate gases which can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING. Charge batteries only in area with good ventilation and keep the seat cover open to vent explosive hydrogen gas.

On battery powered machines the compartment below the seat contains the charging connector for the batteries. Use the safety latch to hold the cover open while charging the batteries.

On Gas/Diesel/LP powered machines the seat compartment contains the fuel tank.

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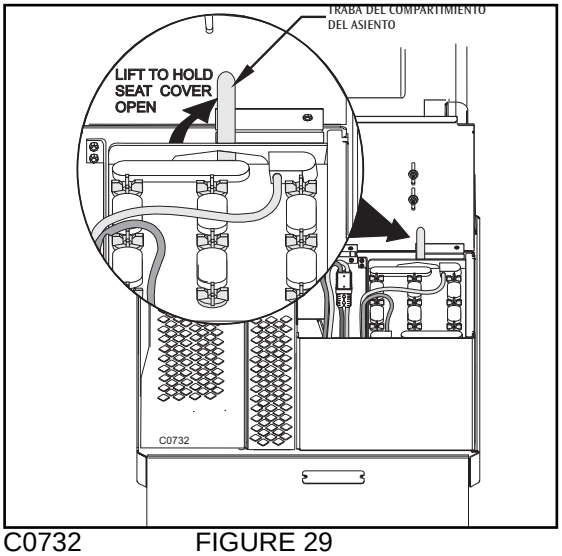
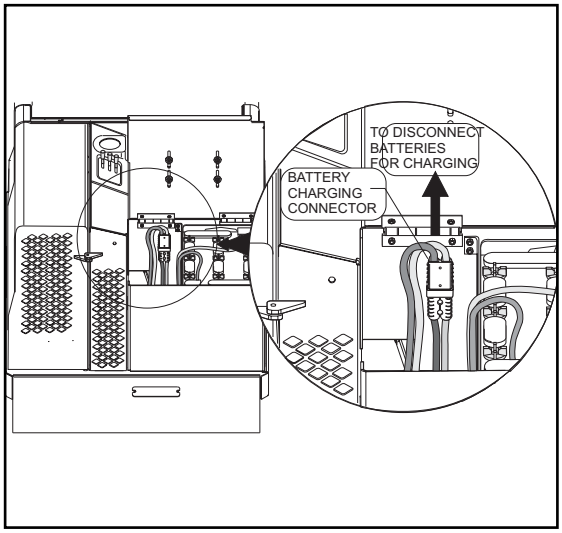


C0732 FIGURE 29

SEAT COMPARTMENT LATCH

The seat compartment latch is located under the seat compartment cover and is used to hold the cover open while charging the batteries.

To hold the seat compartment cover open, lift the latch to the vertical position and release the cover to rest on the latch.



C0730 FIGURE 30

BATTERY CHARGING CONNECTOR

The batteries on battery powered machines are connected to the machine through a heavy duty two conductor connector. The connector allows an easy method of disconnecting power to the machine for service or charging of the batteries.

Plug the charger into the connector to charge the batteries.

⚠ WARNING

Disconnecting the battery connector with the key switch in the "I" position will cause sparks that could ignite explosive hydrogen gas generated by the batteries. To prevent serious injury or possible property damage, turn key switch to "O" position before disconnecting battery cable from machine charging or service.

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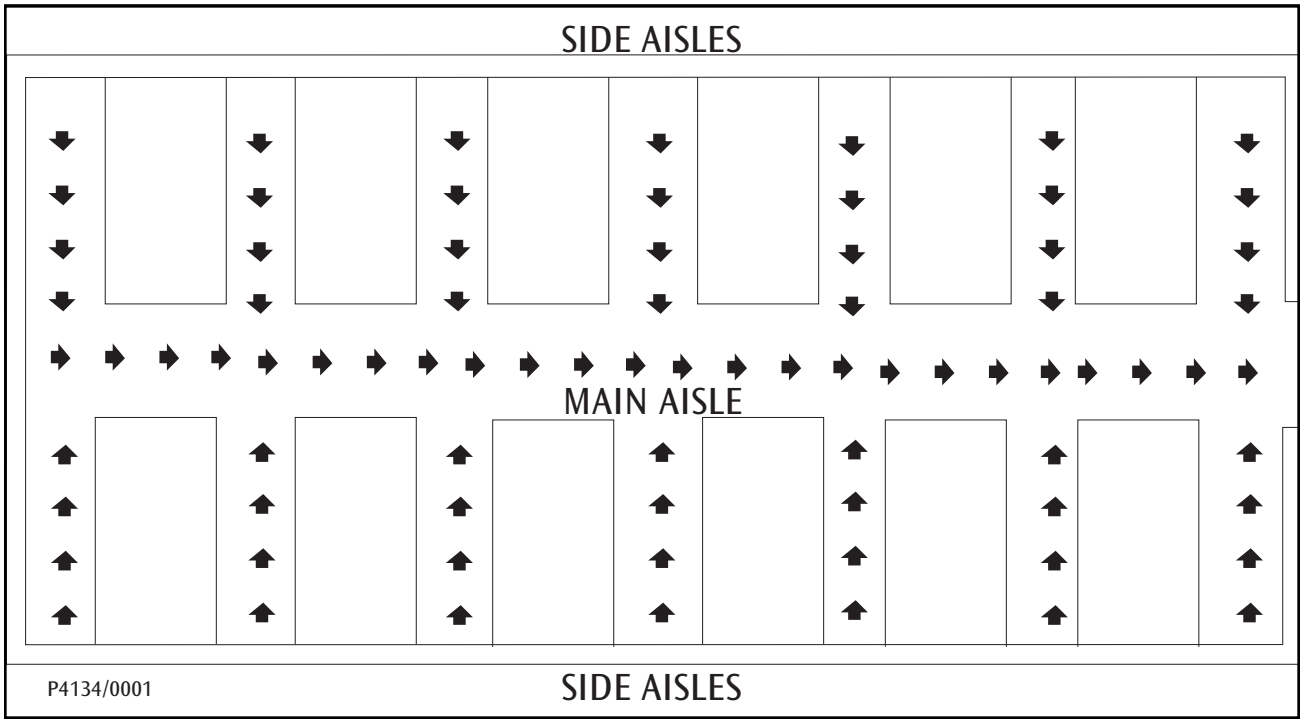
HELPFUL HINTS FOR SWEEPING



P4134 FIGURE 31

HOW TO SWEEP

The sweeper is intended for use on hard relatively flat surfaces such as cement, asphalt, and wood block floors. Exercise care when maneuvering to keep wheels from dropping off curbs or into pot holes. Do not sweep over obstructions.

⚠ WARNING

Do Not Turn The Steering Wheel Sharply When The Machine Is In Motion. The Sweeper Is Very Responsive To Movement Of The Steering Wheel. Do Not Make Sudden Turns.

The sweeper is designated for dry sweeping conditions. Wet clay and muddy type material will adhere to surface of sweeping chamber and hopper. Sweeping performance will degrade if these surfaces are not kept clean. Large heavy objects such as bricks, large stone, and iron parts should not be swept. Damage to the main broom or other sweeping system components is possible. String, rope, wire or metal strapping longer than 18 inches should not be swept. These items have a tendency to wrap around moving parts. This can cause damage or degrade sweeping performance.

SWEEPING GUIDELINES

In actual sweeping, there is no single pattern that can be set forth in this manual. Each installation has its own conditions, and the operator can readily set his own pattern using these guidelines.

-Pick up large debris before sweeping with machine.
-Use the machine to sweep debris from narrow aisles into main aisle.
-After the machine has made a sweeping run, push the filter shaker control button for 20 to 30 seconds, the filter shakers will unload accumulated dust from the filter media.
-Sweep debris from main aisle.
-Overlap of broom paths when sweeping. This will eliminate leaving dirty patches.
-Empty hopper when the sweeper leaves debris, while sweeping.
-Sweep in straight paths. Do not bump posts. Do not scrape the sides of the machine.

NOTE

Replace main broom when bristles are worn to 1.75 inch (3.5 cm) length. To order replacement brooms, see appropriate PARTS LIST and follow instructions in the MAIN BROOM section of this manual. Replace side broom when bristles fail to sweep debris into the path of the main broom. To order replacement brooms, see appropriate PARTS LIST and follow instructions in the SIDE BROOM section of this manual.

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SWEEPING VARIOUS TYPES OF DEBRIS

For heavy sand, dirt, or excessive scattered debris, travel slowly with machine to allow main broom to deliver best results. Do not expect a completely clean surface on the first pass under these conditions. Sometimes it is necessary to have extra broom pressure where debris is excessively heavy. See “Main Broom Adjustment” for information on adjusting broom to a “heavy” sweeping pattern. Material that adheres to the sweeping surface: This type of wet or sticky material will require more broom pressure.

BATTERY MACHINE OPERATION

Charge the batteries after operating the machine. See the battery charging instructions in this manual. Use the pre-start check-list and follow the service chart for daily check points. Read and follow the safety precautions to assure safe, trouble free operation.

⚠ WARNING

Lead acid batteries generate gases which can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING. Charge batteries only in area with good ventilation and keep the seat cover open to vent explosive hydrogen gas.

⚠ WARNING

Always wear eye protection and protective clothing when working near batteries. Remove all jewelry. Do not put tools or other metal objects across the battery terminals or the tops of the batteries.

GAS/LP/MACHINE OPERATION

See the LP instructions in this manual for fueling and service instructions on the LP fuel system and replacement of tanks. Use the pre-start check-list and follow the service chart for daily check points. Read and follow the safety precautions to assure safe, trouble free operation. Gasoline powered machines use regular grade unleaded gasoline. Turn the engine off before dispensing fuel into the gasoline powered machine.

⚠ WARNING

To prevent possible fire: Never fill fuel tank while engine is running. Always be sure gasoline container and sweeper are electrically grounded before dispensing gas. This can be done by permanently attaching an insulated wire with a battery clip on the end to the gasoline container.

⚠ WARNING

All internal combustion engines give off harmful fumes and gases while running. Do not start or run the engine in an enclosed area where the exhaust gases can accumulate. Avoid breathing these gases as they contain poisonous carbon monoxide which can endanger your health or life if inhaled steadily for even a few minutes.

⚠ WARNING

Check for gas odor before and during starting operations. If gas odor is noticed, stop and check for leaks or component malfunctions in the fuel system. Check fuel supply hoses for proper connection and signs of abrasion. Do not start engine when gas odor is present.

⚠ WARNING

Keep cigarettes, sparks, and open flame away when working on LP equipment, use caution when inspecting for gas leaks or when LP tanks are present.

⚠ WARNING

Do not run engine in an enclosed area. Exhaust gases contain carbon monoxide, an odorless and deadly poison. Do not operate the engine without adequate ventilation.

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OPERATING INSTRUCTIONS

BEFORE STARTING

1. Set Parking Brake.
2. Make sure all controls are in the “Off” position.
3. Be sure accelerator and directional control pedal is in neutral.

PRE-START CHECK LIST

Before starting the engine, perform these pre-start checks.

1. Check engine air filter element indicator.
2. Check engine oil level.
3. Check radiator coolant level.
4. Check hydraulic fluid level.
5. Check fuel level.
6. Check all systems for leaks.
7. Check brakes and controls for proper operation.
8. Check broom patterns
9. Check to ensure that all covers, panels and access doors are securely closed.

NOTE

When Machine Has Been Stored In Below Freezing Temperatures, Run Engine At A Low Idle Speed With Machine Standing Still For 5 To 10 Minutes To Warm Engine And Hydraulic Oil.

TO START BATTERY MACHINES

Starting the battery powered models is accomplished by turning the key switch to the “I” (on) position. It is important to note that the batteries should be fully charged and serviced prior to using the machine.

TO CHARGE BATTERIES

Charge the batteries at the end of each day or when the battery condition meter indicates low battery voltage. The batteries need to be charged when the needle stays in the “red” zone while the machine is being operated. When charging batteries, only use the quick disconnect provided ensure correct polarity. Follow the “Battery Charging Instructions” provided in the service section of this manual.

TO START GAS ENGINE

Use the choke in extremely cold temperatures, (under 32 F. or 0 C.),

1. Pull choke if needed.
2. Adjust the throttle to a low engine speed setting.
3. Turn key to “START” position until engine starts, then release. (The key switch will return to the “ON” position.)
4. Push in choke after engine starts running (If used).

TO START PROPANE ENGINE

Perform these checks in addition to the Pre-Start check list.

1. Check connections for leaks
2. Open the LP storage tank valve.
3. Check the regulator. Momentarily press fuel primer on the regulator cover to bleed air out of the system.
4. Adjust the throttle to a low engine speed setting.
5. Turn key to “START” position until engine starts, then release. (The key switch will return to the “ON” position.)

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TO START DIESEL ENGINE

When starting the diesel engine, it should be noted that under no circumstances should Ether or any other starting fluids be used in conjunction with the glow plugs. Do not use the glow plugs for more than 60 seconds at a time or damage to the plugs may result. They key switch must be placed in the “ON” position before using the glow plug switch.

1. Perform the Pre-Start checks found previously in this manual.
2. Turn the ignition switch to the “ON” position and place the throttle in a high engine speed setting.
3. Push and hold the glow plug switch for approximately 30 seconds. Under cold starting conditions, the glow plug switch may be held longer but do not hold the switch for more than 60 seconds to prevent damage to the glow plugs.
4. Turn the key switch to the start position and hold until engine starts. If the engine does not start immediately, release the key switch after 15 seconds to prevent damage to the starter.
5. Release the glow plug switch when the engine starts.

TO DRIVE SWEEPER FOR TRANSPORT

1. Ensure the main broom lever and the side broom lever are in “UP” position with all other sweeping controls in the “OFF” position.
2. Release the parking brake.
3. Adjust the throttle to a medium to high engine speed setting.
4. Push forward on the foot pedal to start the sweeper moving.
5. Vary your foot pressure on the pedal to obtain the desired speed.
6. To stop, allow the foot pedal to return to the centered position. (Pedal will return to neutral when pressure is released)

⚠ WARNING

Do Not Turn The Steering Wheel Sharply When The Machine Is In Motion. The Sweeper Is Very Responsive To Movement Of The Steering Wheel. Do Not Make Sudden Turns.

⚠ WARNING

Machines Can Ignite Flammable Materials And Vapors. Do Not Use With Or Near Flammables Such As: Gasoline, Grain Dust, Solvents And Thinners.

TO SWEEP WITH THE MACHINE

1. Move the broom control lever to the “ON” position.
2. Lower the side and main broom to the floor. (The main broom control may be placed in either the “FLOAT” or “SWEEP” position).
3. Press the Dust Control Switch to the “ON” position.
4. Push forward on directional control pedal to place machine in motion.
5. Vary foot pressure on the directional control pedal to obtain desired travel speed.
6. Read the “Helpful Hints for Sweeping” in this manual for tips on maximizing sweeping performance.

⚠ WARNING

Stop And Leave This Machine On A Level Surface. When You Stop The Machine, Put The Key Switch In The “OFF” Position And Engage The Parking Brake.

TO STOP SWEEPING

1. Allow directional control pedal to return to neutral (centered) position. (Pedal will automatically return to neutral when foot pressure is released.)
2. Depress the foot brake.
3. Press the Dust Control Switch to the “OFF” position..
4. Place the broom controls (Side and Main) in the “UP” position.
5. Move the Broom Control lever to the center “OFF” position.
6. Adjust the throttle to a low engine speed setting.
7. Set parking brake.

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OPERATING INSTRUCTIONS

TO EMPTY DEBRIS HOPPER

1. Adjust the throttle to a medium to high engine speed setting.
2. Engage parking brake.
3. Move the Hopper Dump door lever to the “CLOSE” Position until door is closed.
4. Move the hopper lift lever to the “RAISE” position until the hopper reaches the desired height.
5. Disengage Parking Brake.
6. Drive forward slowly with the hopper raised to clear refuse container before opening the hopper dump door.
7. Engage Parking Brake.
8. Push the hopper dump door lever forward to the “OPEN” position. This will allow debris in the hopper to fall out into the refuse container.
9. Move the hopper dump door lever to the “CLOSE” Position until door is closed.
10. Disengage Parking Brake. •
11. Drive in reverse slowly to clear the refuse container.
12. Engage Parking Brake.
13. Move the hopper lift lever forward to the “LOWER” position and hold until hopper is seated in place.
14. Move the hopper dump door lever to the “OPEN” position until the dump door opens.

⚠ WARNING

Do Not Turn off the engine with the hopper in the lifted position.

NOTE

After Stopping The Engine, Perform These Post Operation Checks.

POST OPERATION CHECK LIST

1. Clean debris hopper.
2. Check sweeping brooms for wear or damage.
3. Check all flaps for wear, damage and adjustment.
4. Fill the fuel tank.
5. Check all systems for leaks.
6. Close the LP storage tank valve. (LP Powered machines only)

⚠ WARNING

The Gasoline Tank Fill Cap Is Located Behind The Drivers Seat, Do Not Mistake The Hydraulic Reservoir For The Gasoline Tank.

BATTERY CHARGING INSTRUCTIONS (Battery powered Machines Only)

Charge the batteries at the end of each day or when the battery condition meter indicates low battery voltage. The batteries need to be charged when the needle stays in the “red” zone while the machine is being operated. When charging the batteries, only use the quick disconnect provided in ensure correct polarity.

Check the liquid level in the batteries at least once a week and add water when low. Use only distilled water. Fill the batteries after charging the batteries to prevent electrolyte from spilling over on the tops of the batteries during the charging process.

⚠ WARNING

The use of an extension cord with the charger should be avoided. Risk of fire and electrical shock is possible if the wrong type or size extension cord is used. If an extension cord must be used, only use a three conductor number 12 AWG cord with ground, properly wired, in good electrical condition and keep it as short as possible. Locate all cords so that they cannot be stepped on, tripped over, or otherwise subjected to damage or stress.

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BATTERY CHARGING INSTRUCTIONS - cont.

⚠ WARNING

Verify that the AC power source to which the charger is to be connected is capable of supplying the current specified on the charger nameplate.

⚠ WARNING

Keep all charger ventilation holes at least 2 inches away from walls or other objects. Do not allow vent holes to become obstructed.

⚠ WARNING

Do not operate charger that has been damages or shows physical signs of damage. Have charger serviced by a qualified professional repair person.

⚠ WARNING

Lead acid batteries generate gases which can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING. Charge batteries only in area with good ventilation and keep the top cover open while charging batteries. Do not disconnect the charger from the batteries before disconnecting the AC power cord. Disconnecting the battery cable with the charger plugged in could cause an explosion.

⚠ WARNING

Disconnecting the battery connector with the key switch in the "I" position will cause sparks that could ignite explosive hydrogen gas generated by the batteries. To prevent serious injury or possible property damage, turn key switch to "O" position before disconnecting battery cable from machine for charging or service.

MACHINE STORAGE

GASOLINE POWERED MACHINES

Machines to be stored over 30 days should be completely drained of fuel to prevent gum deposits forming on essential carburetor parts, fuel filter and tank.

The use of a fuel additive, such as STA-BIL, or an equivalent, will minimize the formation of fuel gum deposits during storage. Such an additive may be added to the gasoline in the fuel tank of the engine.

The following procedure should be used to prepare the machine for storage:

1. All fuel should be removed from the tank. Run the engine until it stops from lack of fuel.
2. While engine is still warm, drain oil from the crankcase. Refill with fresh oil.
3. Remove spark plug, pour approximately 1/2 ounce (15 grams) of engine oil into cylinder and crank slowly to distribute oil. Replace spark plug.
4. Store in a clean and dry area.

BATTERY POWERED MACHINES

All wet batteries will slowly discharge on standing and will discharge much faster when warm than when cold. At normal temperature of 80ºF (26ºC) loss of capacity by self-discharge, starting with a fully charged battery, may amount to an average of .001 specific gravity per day over a 30 day period. The battery should be given a booster charge when a specific gravity falls .040.

Do not discharge the batteries excessively. Excessive discharge can cause polarity reversal of the individual cells in the battery which will lead to complete failure of the batteries.

Use a hydrometer to monitor the specific gravity of the individual cells in the batteries. When checking the specific gravity of the batteries, you should not see a large difference between individual cells. The batteries may need to be replaced if the battery shows a significant difference of specific gravity between the cells.

The specific gravity of the electrolyte should measure 1.285 when fully charged.
Check items for proper operation. If service is required, please contact an authorized American-Lincoln distributor.

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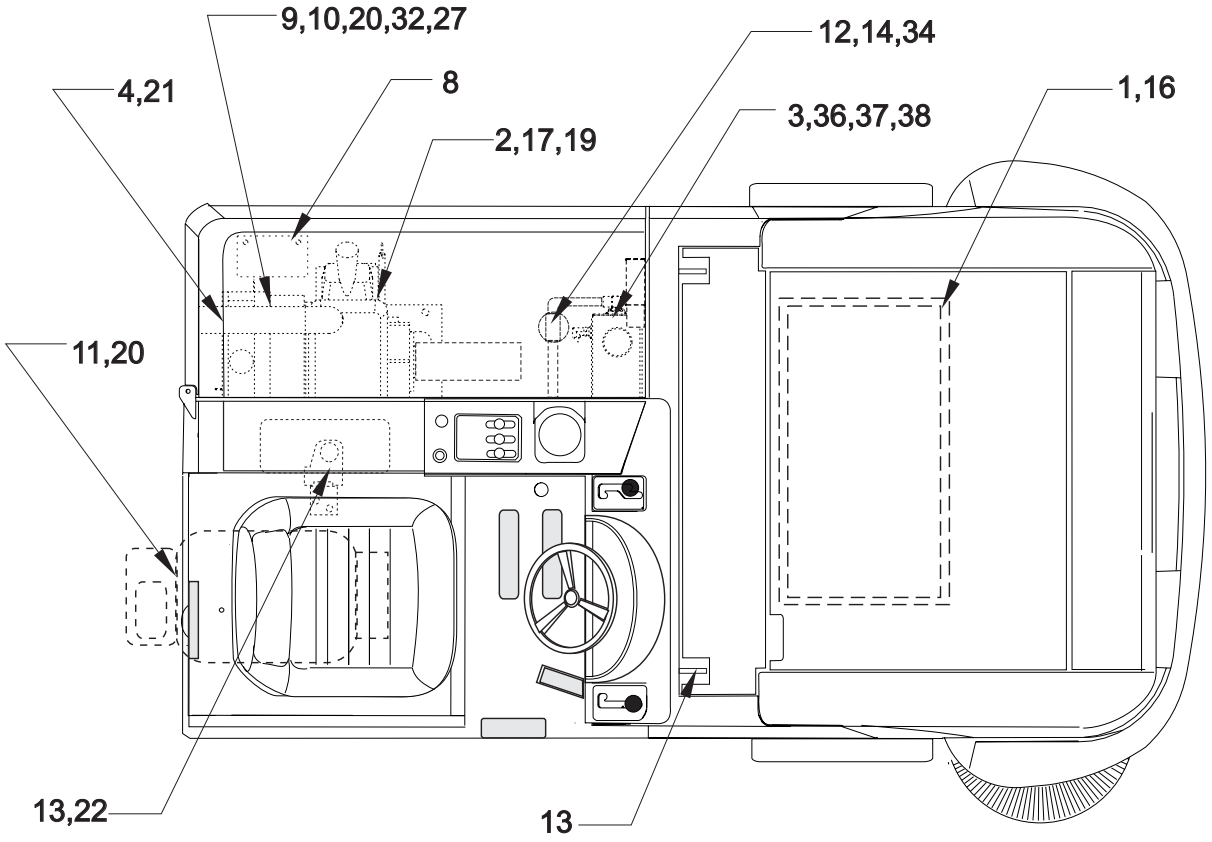
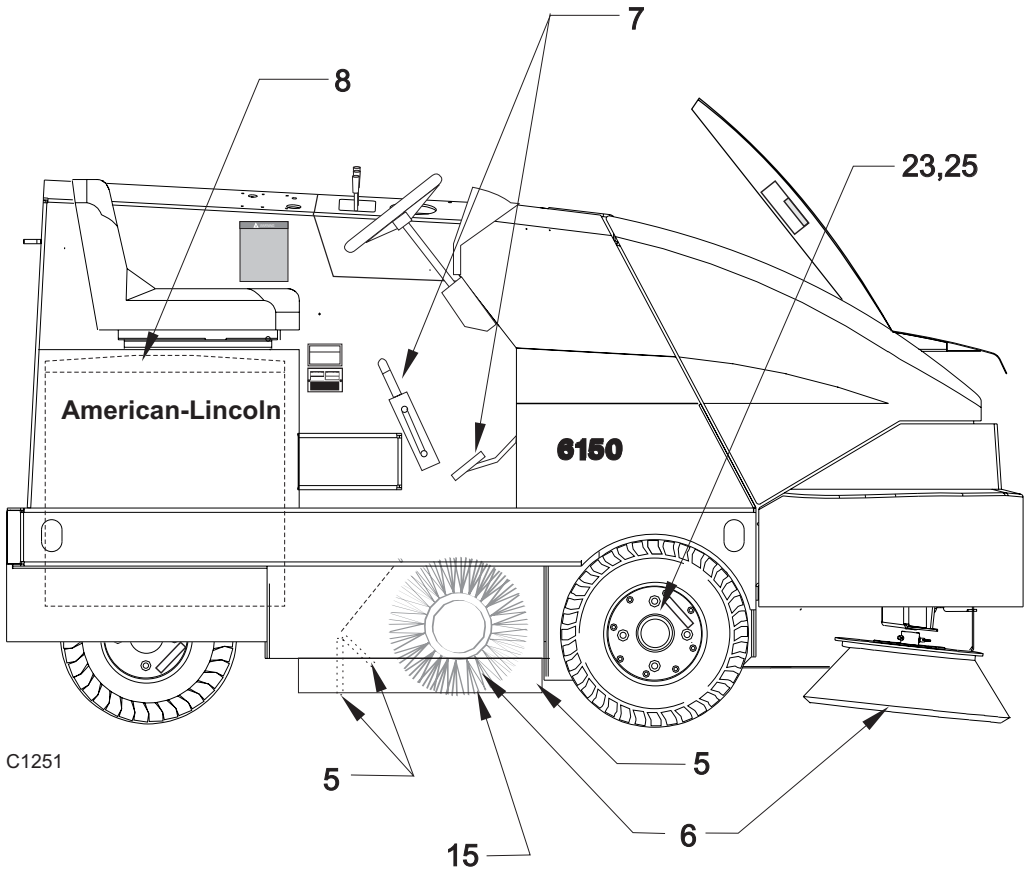
SERVICE CHART





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SERVICE CHART
Check items for proper operation. If service is required, please contact an authorized Alto distributor.

BREAK-IN
During initial break-in period of the engine, the crankcase oil and filter should be changed after 20 hours.

EVERY 8 HOURS or DAILY operation check and clean/adjust if necessary:

1. Inspect panel filter for damage and clean.
2. Check engine oil level
3. Check hydraulic fluid level
4. Check radiator cooling fins for blockage
5. Check all flaps for wear or damage
6. Check brooms for wear or damage, adjust as required
7. Check brake pedal and parking brake
8. Check battery electrolyte level.
9. Check belt tension.
10. Check coolant level
11. Check LPG connections for odor.
12. Check all fluid system components for leaks.

EVERY 50 HOURS

13. Lubricate dump system and drive wheel pivot points
14. Check all hydraulic hoses for wears or cuts.
15. Rotate main broom (end for end)
16. Clean or replace panel filters
17. Perform recommended engine maintenance (See engine manual)

EVERY 100 HOURS

18. Change crankcase oil.
19. Change engine oil filter.
20. Check fuel hose for leaks or deterioration.
21. Check radiator hoses and clamps.
22. Lubricate steering yoke pivot bearings.
23. Lubricate front wheel bearings.
24. Lubricate all moving joints.
25. Check brake pads for wear and adjustment.
26. Lubricate all “DAN HOUSER” bushings with NAPA #765-1363 (or equivalent) anti-seize lubricant. The bushings are located on the steering, hopper lift, and dump door cylinders.
27. Clean or replace engine air filter element as necessary.

EVERY 250 HOURS

28. Replace engine air filter element
29. Flush radiator coolant system
30. Remove spark plugs - clean or replace
31. Clean and lubricate governor & choke linkage
32. Replace fuel filter
33. Replace hydraulic filter element
34. Perform recommended engine maintenance (See engine manual)

EVERY 500 HOURS

36. Clean hydraulic reservoir
37. Clean hydraulic intake strainer
38. Change hydraulic fluid
39. Perform recommended engine maintenance (See engine manual)

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SWEEPING SYSTEM SERVICE

MAIN BROOM

To prevent the broom from “setting” in one direction and to provide the maximum life of the broom it is recommended that the broom be turned end for end periodically.

TO CHECK THE MAIN BROOM SWEEP PATTERN

Check the main broom sweep pattern after changing the broom or when poor sweeping performance is encountered while sweeping.

1. While the machine is not moving, lower the main broom to the “SWEEP” position and let machine sweep in one spot for a short period of time.
2. Before moving machine, raise main broom lever to the “UP” position and move the sweeper forward enough to see the pattern left by the main broom bristles on the floor.
3. Check the width of the pattern on the floor to determine if the main broom requires adjustment.

-A normal sweep pattern left on the floor will be between 1 and 2 inches wide.
-A pattern that is more than 2 inches wide indicates the broom linkage needs to be adjusted “UP”
-A pattern that is less than 1 inch wide indicates the broom linkage needs to be adjusted “DOWN”

TO ADJUST THE MAIN BROOM HEIGHT

When changing the sweep height adjustment it is recommended that the bolt be adjusted 1 turn at a time, After adjustment, re-check the sweep pattern to determine if further adjustment is necessary.

-Turn the adjustment knob counter-clockwise to INCREASE the sweep pattern width.
-Turn the adjustment knob clockwise to DECREASE the sweep pattern width.

TO REPLACE THE MAIN BROOM

The Main Broom should be replaced when the bristles become worn to less than 2”. The main broom is held in place by the right side broom door. This feature provides for easy removal and installation of the main broom without the need for special tools or equipment. Follow the instructions below for main broom removal & replacement.

1. Park sweeper on a smooth level surface, engage parking brake, turn key switch “OFF”, place the main broom lever in the “SWEEP” position.
2. Lift the door latch to open the right side broom door.
3. Swing the broom drive idler hub out to clear the main broom.
4. Remove the broom from the broom compartment.
5. Install the replacement broom. Pay special attention to the slots on the broom, it may be necessary to rotate the broom so the tabs on the drive hub align with the slots on the broom.
6. Swing the idler hub to engage the main broom and close the access door. Check the door latch for proper engagement when closed.
7. Check the Main Broom sweep pattern and adjust as necessary.

MAIN BROOM LEVEL ADJUSTMENT

The main broom level is factory set and should not need adjustment. If the level becomes out of adjustment and the broom bristle contact pattern is not an even 2” to 3” wide, the broom arm lift frame will need to be adjusted. The frame is supported by two plates located inside the broom doors. The carriage bolts (part number 2-00-05187) that secure the plates to the frame will need to be loosened. The frame can then be leveled and the bolts retightened.

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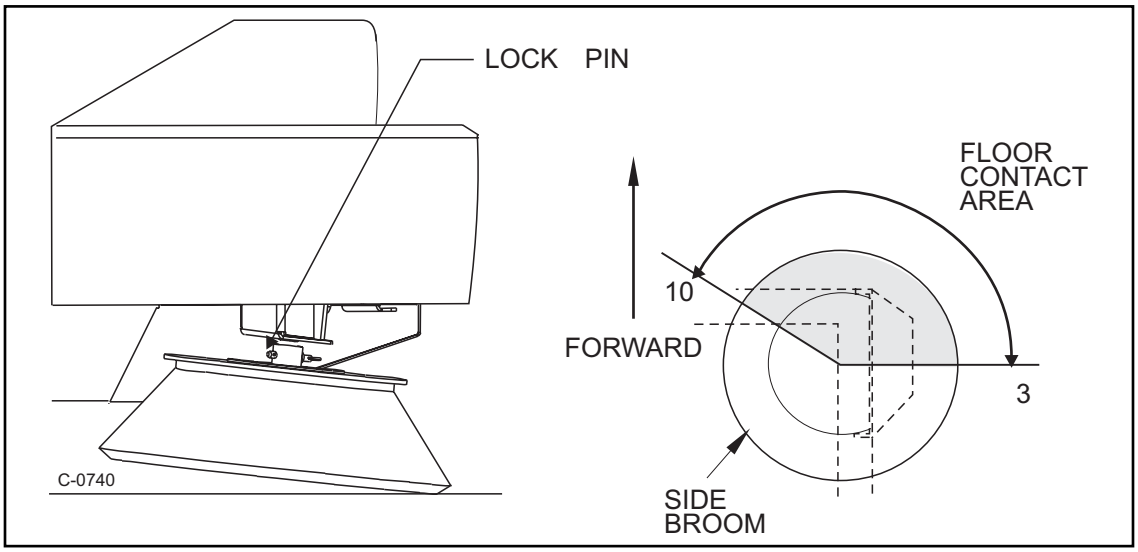

C0740 FIGURE 32

SIDE BROOM

The Side Broom sweeping angle is not adjustable however the height of the side brooms can be adjusted to compensate for wear as the broom becomes worn from use. Always check and adjust the sweep pattern after changing the side broom.

TO CHECK THE SIDE BROOM SWEEP PATTERN

1. Park the machine on a smooth level surface.
2. Place the Side Broom Lever in the “DOWN” position.
3. Move the Brooms Control Lever to the “ON” position.
4. While staying in place allow the side broom to sweep for a short period of time. (Allow enough time for the side brooms to leave a clean footprint on the floor).
5. Place the Side Broom Lever in the “UP” position.
6. Move the Brooms Control lever to the “OFF” position.
7. Back the sweeper away from the area where the Pattern was left. •
8. Turn Key Switch to the “OFF” position and engage parking brake.
9. Leave operator’s compartment and check the pattern to determine the Floor Contact area.
10. Determine if adjustment to the side brooms height is necessary by examining the floor contact area the broom should contact the floor as shown in figure 34 above.

Adjust the side broom height if the contact area on the floor does not match the diagram.

TO ADJUST THE SIDE BROOM HEIGHT

Turn the side broom adjustment knob to change the side broom sweep height. Re-check for proper sweep pattern after adjustment.

-Turn the adjustment knob counter-clockwise to INCREASE the sweep pattern width.
-Turn the adjustment knob clockwise to DECREASE the sweep pattern width.

TO CHANGE THE SIDE BROOM

Change the side brooms when the bristles become worn to less than 3 inches length.

1. Park Machine on a smooth level surface, turn key switch to “OFF” Position and engage Parking Brake.
2. Place the side brooms lever in the “UP” Position.
3. Remove the lock pin that holds the broom flange to the motor shaft.
4. Disassemble the flange from the broom by removing the screws that hold the flange to the broom.
5. Assemble the flange to the replacement Broom and fasten using the hardware removed.
6. Install the replacement broom on the shaft and insert the lockpin.

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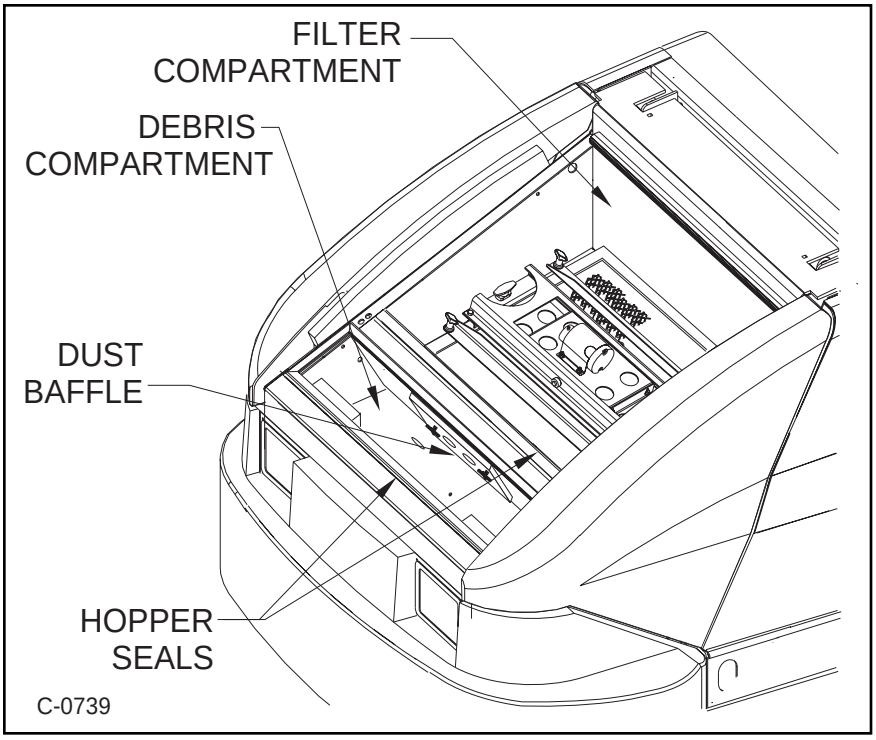
HOPPER

The hopper houses the debris compartment, the dust control filter and the removable dust baffle. For maximum performance and service life, keep the hopper clean and inspect the seals and flaps daily. Clean the hopper prior to parking the sweeper at the end of the day. A clean hopper will make inspecting the flaps and seals much easier and will prevent premature deterioration of hopper components. Do not leave the hopper full of debris while in storage or when parked for extended periods of time



C0739 FIGURE 33

TO CLEAN HOPPER

Once the hopper has been emptied the insides of the hopper should be rinsed out with water.

TO CHECK HOPPER SEALS

The Hopper seals are important to positive dust control while sweeping. Damaged seals will reduce vacuum pressure at the broom. Inspect for cuts, tears and proper positioning of the seal material. Replace all seals that become damaged.

DUST CONTROL FILTER

The dust control filter should be checked daily for damage and cleaned if necessary. A damaged filter must be replaced to prevent damage to other dust control system components. Inspect the filter for tears in the filter media or excessive dirt lodged in the pleats. A tear in the filter media will allow dirt to pass through the filter and can be easily seen as a dirty patch on the top side on the filter. Cleaning the filter is necessary when the filter shaker fails to adequately clean the pleats.

TO CHECK THE DUST CONTROL FILTER

1. Park the sweeper on a smooth level surface. Turn the key switch to the “O” position and engage the parking brake.
2. Raise the hopper lid for access to the filter compartment.
3. Turn the latch, lift the filter frame and remove the filter.
4. Inspect the panel filter for tears and clean or replace if necessary.
5. Reinstall the filter, lower the filter frame and engage the filter latch.
6. Close the hopper cover.

TO CLEAN THE DUST CONTROL FILTER

Clean the dust control filter when the shaker fails to adequately clear the filter. The filter can be cleaned with compressed air not to exceed 100psi.

To clean the filter with compressed air, apply the compressed air to the top of the panel to backflush the lodged dirt from the filter pleats. Be careful to not damage the filter media while cleaning. The filter can be cleaned with a solution of soap and water. If this cleaning method is used do not use the filter until it is completely dried.

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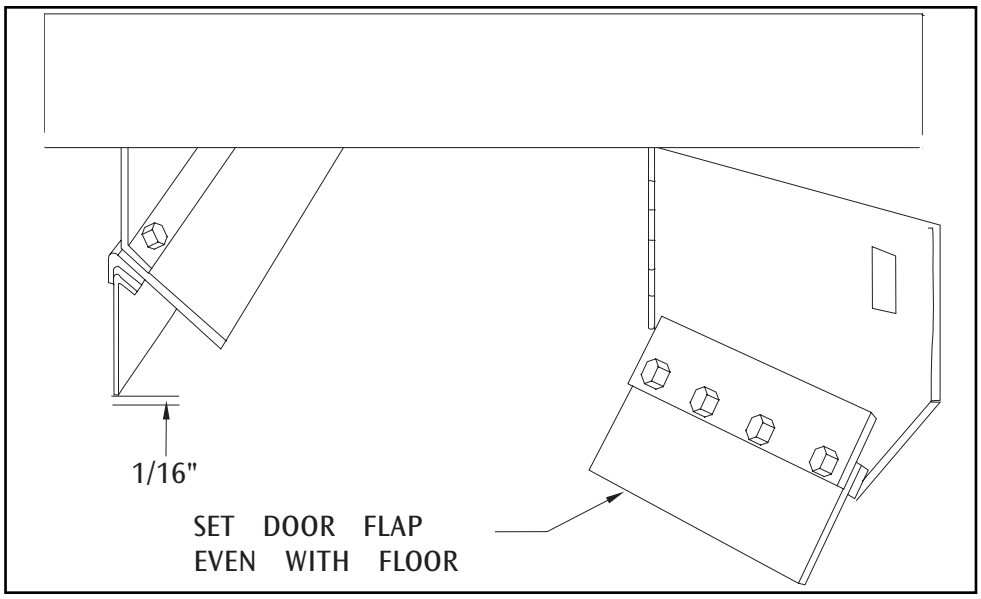

P4488A FIGURE 34

TO CHANGE THE DUST CONTROL FILTER

Change the filter panel when damage is evident.

1. Park the sweeper on a smooth level surface. Turn the key switch to the “O” position and engage the parking brake.
2. Open the hopper compartment cover to gain access to the filter compartment.
3. Turn the latch on the hinged frame counter-clockwise and lift the frame.
4. Remove the filter panel.
5. Install replacement filter, lower the hinged frame and engage the latch.
6. Lower the filter compartment cover.

DUST FLAPS

The dust flaps are very important to sweeping and dust control and are susceptible to damage and should be inspected daily and maintained in good condition.

TO CHECK THE DUST FLAPS

The dust flaps are used on the wheel well, broom chamber, and broom door. Inspect the flaps daily and replace any flap that shows signs of wear or deterioration. All flaps should be replaced when worn or damaged to the point that they can no longer perform their normal function. The adjustable flaps have slotted mounting holes to facilitate adjustment.

TO ADJUST THE DUST FLAPS

Adjust the flaps so there is a 1/8” to 1/16” Gap between the floor and the bottom edge of the flaps. The rear flap adjustment is 1/16” (16 cm.) above the floor.

1. Park Sweeper on a smooth level surface and engage the Parking Brake.
2. Loosen the Flap retaining screws and adjust the flap to clear the floor and leave a 1/16” to 1/8” Gap.
3. Tighten Flap retaining screws while holding flap in position.
4. Drive sweeper on a smooth surface and recheck the flaps for proper floor clearance.

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BATTERY SERVICE INSTRUCTIONS

STARTER BATTERY (Gas/LP/Diesel Powered Machines Only)

The starter battery is located in the engine compartment on Gas/LP/Diesel powered machines. Keep the top of the battery clean and dry. Keep the terminals and connectors clean. To clean the tops of batteries, use a damp cloth with a weak solution of ammonia or bicarbonate of soda solution. To clean the terminals and connectors, use a terminal and connector cleaning tool.

ATTENTION

Never allow the soda solution to enter the cells. This will permanently discharge the battery.

BATTERY CHARGING INSTRUCTIONS (Battery powered Machines Only)

Charge the batteries at the end of each day or when the battery condition meter indicated low battery voltage. The batteries need to be charged when the needle stays in the “red” zone while the machine is being operated. When charging batteries, only use the quick disconnect provided. Use the quick disconnect to insure correct polarity.

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BATTERY SERVICE INSTRUCTIONS

BATTERY CHARGING INSTRUCTIONS - cont.

Check the liquid level in the battery at least once a week and add water when low. Use only distilled water. Fill the batteries after charging the batteries to prevent electrolyte from spilling over on the tops of the batteries during the charging process.

⚠ WARNING

The use of an extension cord with the charger should be avoided. Risk of fire and electrical shock is possible if the wrong type or size extension cord is used. If an extension cord must be used, only use a three conductor number 12 AWG cord with ground, properly wired, in good electrical condition and keep it as short as possible. Locate all cords so that they cannot be stepped on, tripped over, or otherwise subjected to damage or stress.

⚠ WARNING

Verify that the AC power source to which the charger is to be connected is capable of supplying the current specified on the charger nameplate.

⚠ WARNING

Keep all charger ventilation holes at least 2 inches away from walls or other objects. Do not allow vent holes to become obstructed.

⚠ WARNING

Do not operate charger that has been damaged or shows physical signs of damage. Have charger serviced by a qualified professional repair person.

⚠ WARNING

Disconnecting the battery connector with the key switch in the "I" position will cause sparks that could ignite explosive hydrogen gas generated by the batteries. To prevent serious injury or possible property damage, Turn key switch to "O" position before disconnecting battery cable from machine for charging or service.

⚠ WARNING

Lead acid batteries generate gases which can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING. Charge batteries only in area with good ventilation and always leave the seat compartment cover open while charging batteries. Do not disconnect the charger from the batteries before disconnecting the AC power cord. Disconnecting the battery cable with the charger plugged in could cause an explosion.

TO CHARGE THE MOTOR POWER BATTERIES (Battery Powered Machines Only)

1. Read the detailed instructions provided on the charger.
2. Be sure all controls are "OFF" and machine is located in an area with good ventilation.
3. Open the seat compartment cover. The cover must remain open during the charging process. Use the seat compartment latch to hold the cover open.
4. Disconnect the battery from machine power supply cable using the quick disconnect provided.
5. Connect the charger cable to the battery connector.
6. Plug the charger into properly grounded AC outlet. Be sure to verify the operating voltage of your charger.
   The chargers supplied with machine operate at 115 VAC @ 60 HZ or 230 VAC @ 50 HZ.
7. The charger will begin charging the batteries after a short period of time. The charger will shut off automatically when the charging process is complete.
8. Unplug the charger from the grounded AC outlet before disconnecting the charger from the battery.
9. Disconnect the charger cable from the battery.
10. Check the electrolyte level in the battery after charging. Add distilled water if needed.
11. Reconnect the machine power supply cable to the battery cable.
12. Lower the seat compartment cover and perform the pre-start checks before operating the machine.

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6150 IC

Power Sweeper

PARTS LIST

After Serial Number 630950

American-Lincoln Models: 576-500, 576-500CE, 576-503, 576-503CE, 576-504, 576-504CE, 576-505, 576-505CE, 576-506, 576-506CE

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5/06 revised 2/09 FORM NO. 56042480

FRONT WHEEL 3
REAR WHEEL 4
VAC FAN 6
BROOM DOOR 8
FLAP ASSEMBLY (WHEEL WELL) 10
MAIN BROOM LEVER 12
MAIN BROOM IDLER 13
MAIN BROOM DRIVER 14
MAIN BROOM LIFT FRAME 15
SIDE BROOM ASSEMBLY 16
SIDE BROOM LIFT SYSTEM 18
SIDE BROOM LEVER 20
BROOM CHAMBER FLAPS AND SEALS 22
BRAKE PEDAL 24
FILTER SHAKER 26
SEAT AND FLOOR ASSEMBLY 28
STEERING COLUMN 30
EXHAUST PIPE ASSEMBLY 31
KAWASAKI 20 HP MUFFLER 32
FRONT BUMPER 33
HYDRAULIC OIL COOLER 34
VALVE - CONTROL AND RELIEF (2 CYL) 35
VALVE - CONTROL AND RELIEF (3 CYL. KUBOTA GAS & DIESEL) 36
FORWARD/REVERSE CONTROL (2 CYL) 38
FORWARD/REVERSE CONTROL (3 CYL KUBOTA GAS & DIESEL) 40
RESERVOIR (2 CYL) 42
RESERVOIR (3 CYL. KUBOTA GAS & DIESEL) 44
FUEL TANK (GAS) 46
FUEL TANK (DIESEL) 48
HOPPER ASSEMBLY 50
HOPPER COVERS & GASKET ASSEMBLY 52
HOPPER LIFT 54
HOPPER SIDES 55
DUMP DOOR 56
SAFETY ARM 58
HYDRAULIC FILTER (2 CYL) 59
HYDRAULIC FILTER (3 CYL KUBOTA GAS & DIESEL) 60
HYDRAULIC PUMP (2 CYL GAS/LP) 61
HYDRAULIC PUMP (3 CYL. KUBOTA GAS & DIESEL) 62
ENGINE COVER 64
ACCESS COVER 66
ENGINE (2 CYL. KAWASAKI GAS) 68
ENGINE (3 CYL. KUBOTA GAS) 70
ENGINE (3 CYL. KUBOTA DIESEL) 72
ENGINE (3 CYL. DUAL FUEL-LP) 74
HYDRAULIC HOSE DIAGRAM (3 CYL.) 76
HYDRAULIC HOSE DIAGRAM (2 CYL.) 78
ELECTRICAL ASSEMBLY (LIGHTS & HORN) 80
BATTERY - ELECTRICAL ASSEMBLY (2 CYL KAWASAKI GAS) 81
BATTERY - ELECTRICAL ASSEMBLY (3 CYL KUBOTA GAS & DIESEL) 82
ELECTRICAL HARNESS ROUTING (2 & 3 CYLINDER) 83
MACHINE HARNESS CONNECTIONS (2 & 3 CYLINDER) 84
INSTRUMENT HOUSING 86
INSTRUMENT PANEL 88
DECALS 90
DECALS (continued) 92
2 CYL. KAWASAKI LP (CE MODELS ONLY) 94
CE - KIT 96
INSTRUMENT PANEL CONNECTION DIAGRAM 98
3-CYL. KUBOTA ENGINE ELECTRICAL SCHEMATIC 99
2-CYL. KAWASAKI ENGINE CONNECTION SCHEMATIC 100
HYDRAULIC SCHEMATIC (2 CYL. GAS, LP & DIESEL) 101
ELECTRICAL SCHEMATIC (GAS, LP, DIESEL) 102
HYDRAULIC SCHEMATIC (3 CYL. GAS & DIESEL) 103

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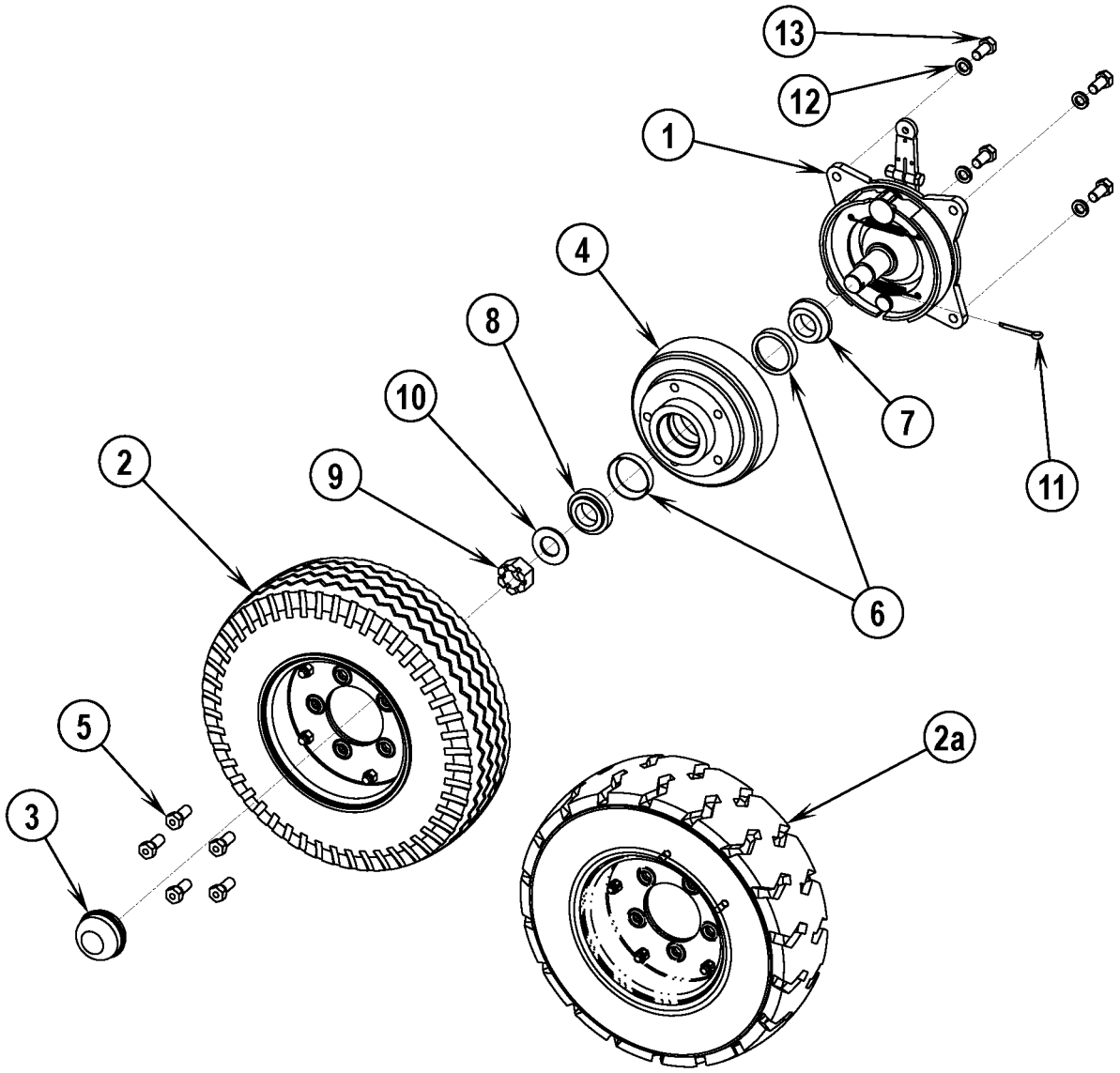

Item	Ref. No.	Qty	Description
1	0860-703	2	Axle/Shaft Assy
2	8-89-08076	2	Wheel Assy, Pneumatic 4 x 8
2a	8-89-08086	2	Wheel Assy, Solid Pneumatic Non Marking **(Zoah model 576-508 only)**
3	8-11-00030	2	Grease Cap
4	8-33-09089	2	Hub and Drum
5	8-80-05035	10	Stud
6	2-00-04621	4	Bearing Cup
7	2-00-02079	2	Bearing Cone (Sealed)
8	2-00-04622	2	Bearing Cone
9	2-00-05026	2	Nut
10	2-00-05024	2	Flat Washer
11	2-00-02436	2	Cotter Pin
12	2-00-02312	8	Lock Washer, 1/2 HS Med.
13	2-00-02689	8	Screw, 1/2-20 x 1.000 HHC

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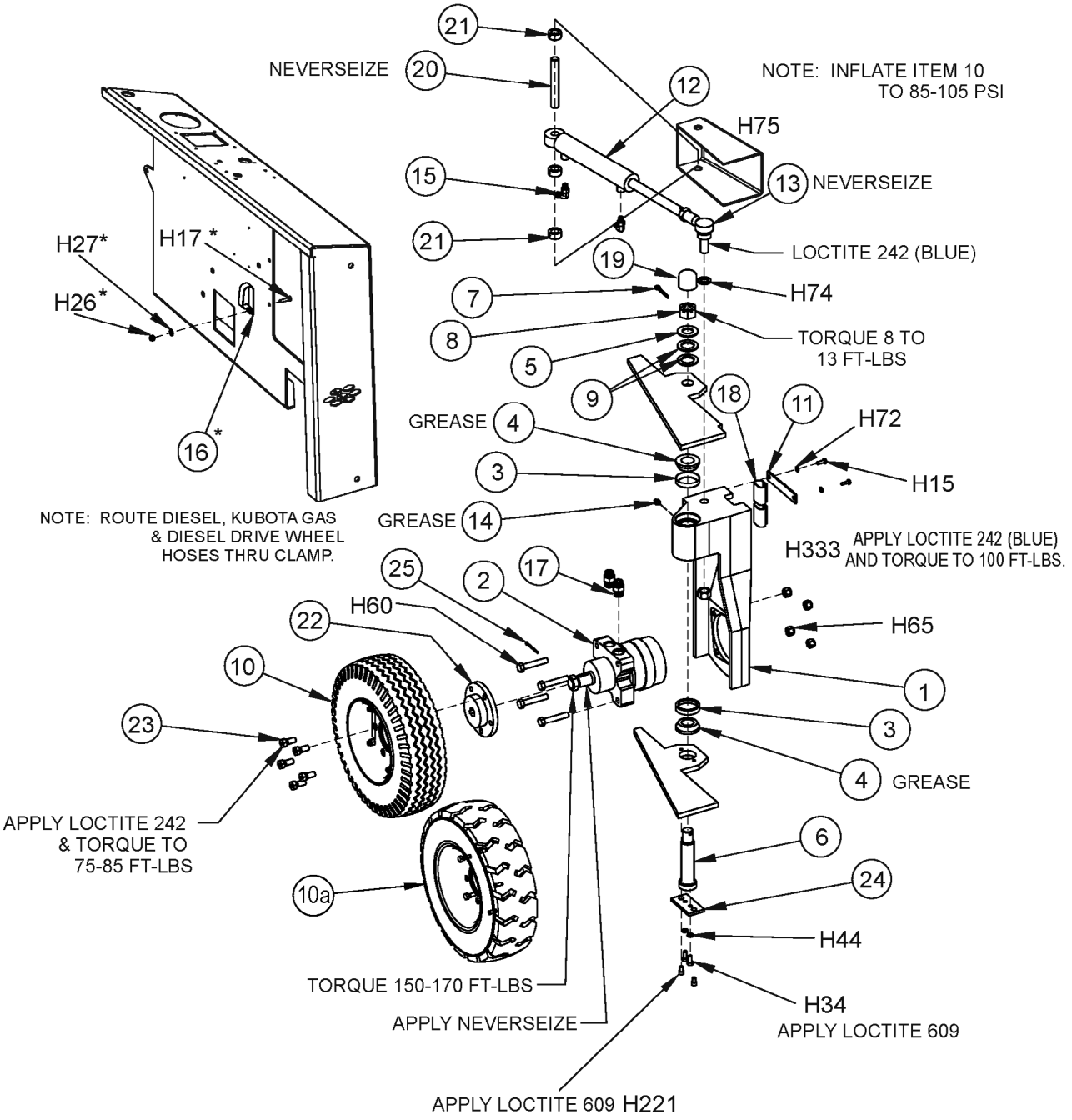

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Item	Ref. No.	Qty	Description
1	8-92-00041	1	Yoke - Rear Wheel
2<	0885-089	1	Hydraulic Motor (2-cyl. Gas/LP)
2<	0885-092	1	Hydraulic Motor (3-cyl G, LP, D)
	2-00-06551	1	Nut for 0885-089 & 0885-092
3	2-00-04621	2	Bearing, Outer Race (Cup Only)
4	2-00-02079	2	Roller Bearing
5	2-00-05024	1	Washer (Flat)
6	8-55-08131	1	Pivot Pin, Rear Wheel
7	2-00-02436	1	Cotter Pin, .18 Dia.
8	2-00-05026	1	Nut, Slotted Head
9	8-75-01136	2	Washer Thrust
10	8-89-08076	1	Wheel Assembly
	8-85-06025		Tire Only (Service)
	7-65-05021		Rim Assy., 5 x 8 3.75 (Service)
	8-70-00093		Tube (Service)
	7-18-00159		Decal, Pneum. Wheel Warning (Service)
10a	8-89-08086	1	Wheel Assy, Solid Pneumatic Non Marking **(Zoah model 576-508 only)**
	7-65-05021	1	Rim Assy (Service)
	8-85-06028	1	Tire, Solid Pneumatic Non Marking (Service)
11	8-65-00045	1	Retainer, Hydraulic Hose
12	7-17-05017	1	Hydraulic Cylinder
	7-70-00021	1	Cylinder Seal Kit (service)
13	8-66-00149	1	Rod End
14	2-00-00566	1	Grease Zerk
15	2-00-04892	1	Fitting, 90°
16	2-00-05253	1	Clamp
17	2-00-04974	2	Fitting, Straight
18	8-30-05175	2	Guard, Hose
19	7-11-00048	1	Cap, 7/8 Hex Nut
20	8-55-08128	1	Pin, Steering Cylinder Pivot
21	8-15-01032	3	Collar
22	8-33-09093	1	Hub, Drive Wheel
23	8-80-05035	5	Stud
24	7-13-07176	1	Clamp - Pivot Pin
25	2-00-04803	1	Cotter Pin (1/8 Dia. X 2 Lg)

HARDWARE USED:

H15	2-00-00221	2	Screw, 1/4-20 x .750 HHC
H17*	2-00-00205	1	Screw, ¼-20 x 1.000 HHC
H26*	2-00-00641	1	Nut, ¼-20 Insert Fiber
H27*	2-00-03702	1	Washer, .625 x .281 x .063
H34	2-00-00208	2	Screw, 5/16 - 18 x .750 HHC
H44	2-00-00530	2	Lock Washer, 5/16 HS Med.
H60	2-00-02682	4	Screw, 1/2-13 x 2.750 HHC
H65	2-00-04936	4	Nut, 1/2-13 Fibre Lock
H72	2-00-00518	2	Lock Washer, Helical Spring
H74	2-00-03170	1	Flat Washer, 1.500 x .750 x .125
H75	2-00-00618	1	Nut, Hex Jam 3/8-16
H221	2-00-03335	2	Screw, Hex SOC Cap. .312 - 18 x .50
H333	2-00-04156	1	Nut - INS - Fibre - .75-16

< Seal Kit for both motors: 0880-687

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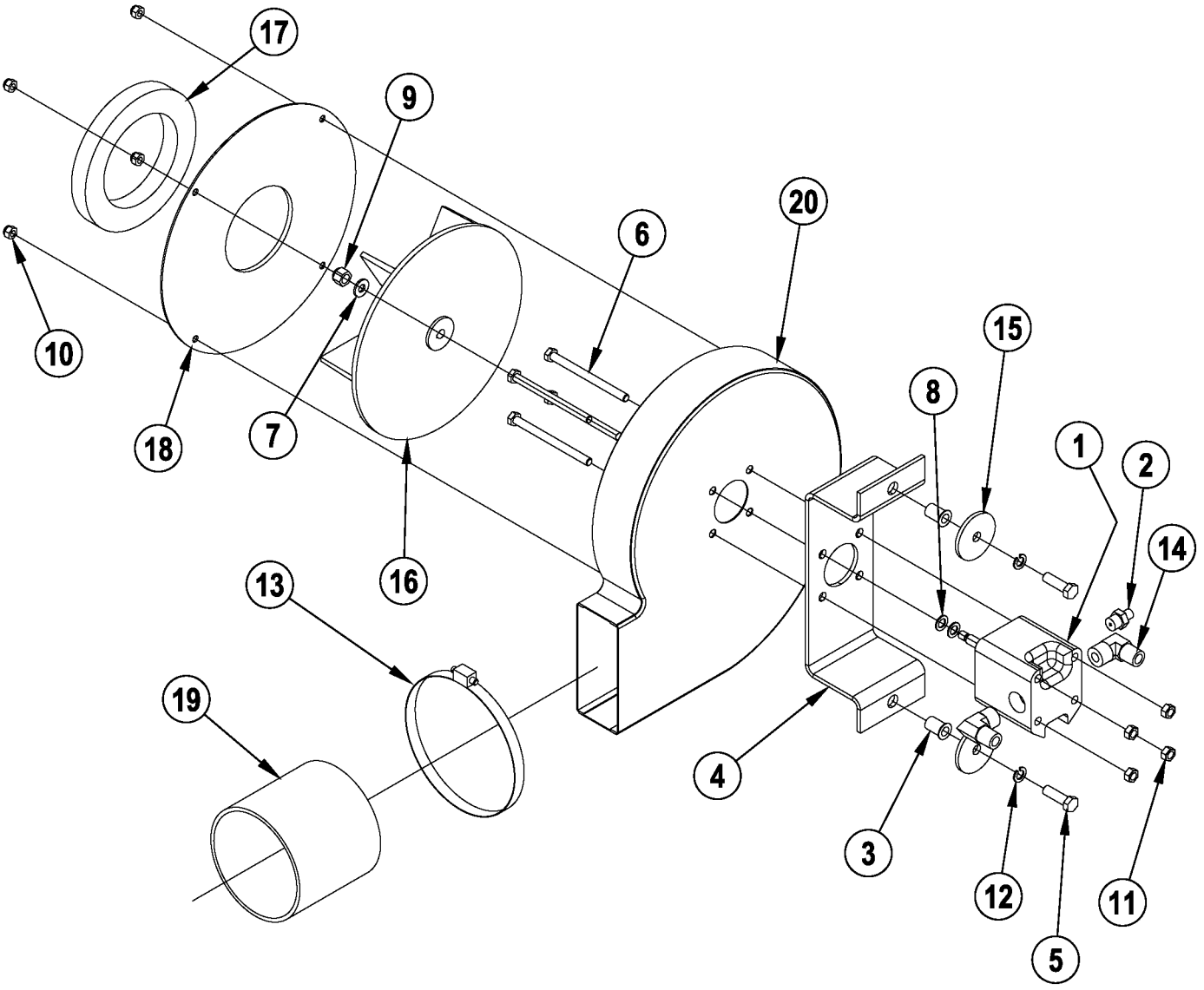

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Item	Ref. No.	Qty	Description
	56109309	1	Vac Fan Assembly
1	0885-052	1	Vacuum Motor
2	2-00-05052	1	Fitting, Adapter, 7/16
3	2-00-05347	2	Threaded Insert 3-8-16
4	8-08-00842-1	1	Bracket, Vac Fan
5	2-00-00209	2	Bolt, Hex Head, 3/8-16 X 1 1/4 Ss
6	2-00-00252	4	Screw-Hhc .313-18 X 4 Gr 5
7	2-00-00451	1	Washer, Flat
8	2-00-00484	2	Flat Washer, .625 X .375 X .046
9	2-00-00632	1	Nut, 5/16-18, Insert Fiber
10	2-00-00641	4	Nut, Fiber Insert 1/4-20
11	2-00-00644	4	Nut, Hex, Insert Fiber, 5/16-18
12	2-00-02310	2	Washer-Lock, 3/8", Helical Spring
13	2-00-03454	1	Hose Clamp
14	2-00-05204	2	13/16-16 Orsmx1/2-14 Nptf 90
15	2-95-04689	2	Washer-Axle
16	8-23-00012	1	Fan-Impeller
17	8-29-00183	1	Gasket - Blower
18	8-30-05169	1	Weldment-Guard Plate
19	8-33-02271	1	Hose, Blower Exhaust
20	8-72-00005	1	Shroud, Vac Fan

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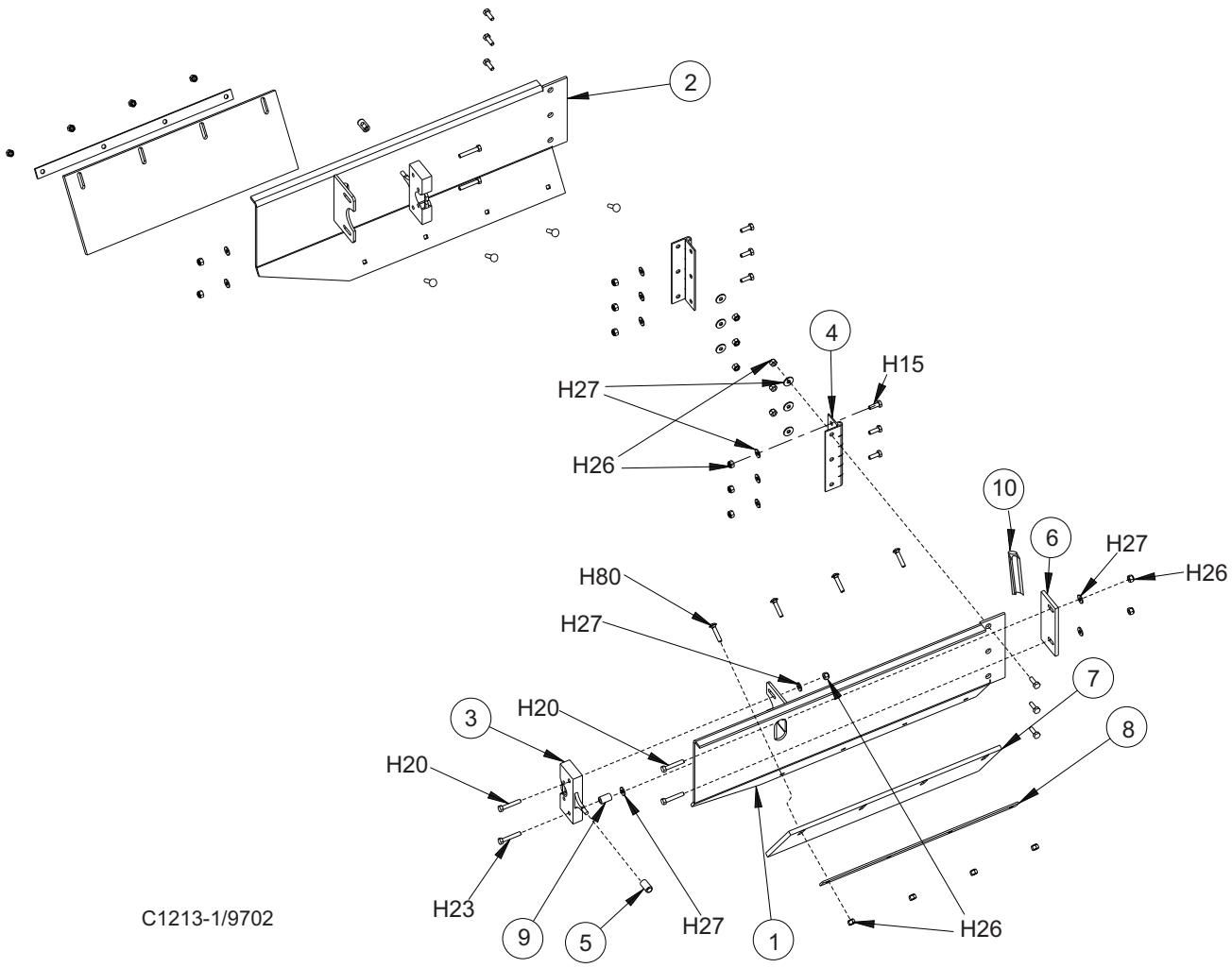

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Item	Ref. No.	Qty	Description
1	8-19-08068	1	Broom Door Weldment, Right
2	8-19-08067	1	Broom Door Weldment, Left
3	8-41-00052	2	Latch
4	8-32-00044	2	Hinge
5	8-39-00015	2	Latch Knob, Broom Door
6	8-58-05271	1	Plate, Idler Retainer
7	8-25-08212	2	Flap
8	8-13-07145	2	Clamp
9	8-75-01199	1	Spacer, Broom Door Latch
10	8-29-00232	1	Gasket

HARDWARE USED:

H15	2-00-00221	12	Screw, 1/4-20 x .750 HHC
H20	2-00-00203	6	Screw, 1/4-20 x 1.500 HHC
H23	2-00-01980	1	Screw, 1/4-20 x 1.500 HHC
H26	2-00-00641	14	Nut, 1/4-20 Insert Fiber
H27	2-00-03702	14	Washer, .625 x .281 x .063
H80	2-00-02196	8	Carriage Bolt, 1/4-20 x 1.000 RHM
H116	2-00-01951	8	Carriage Bolt, 1/4-20 x 1.250

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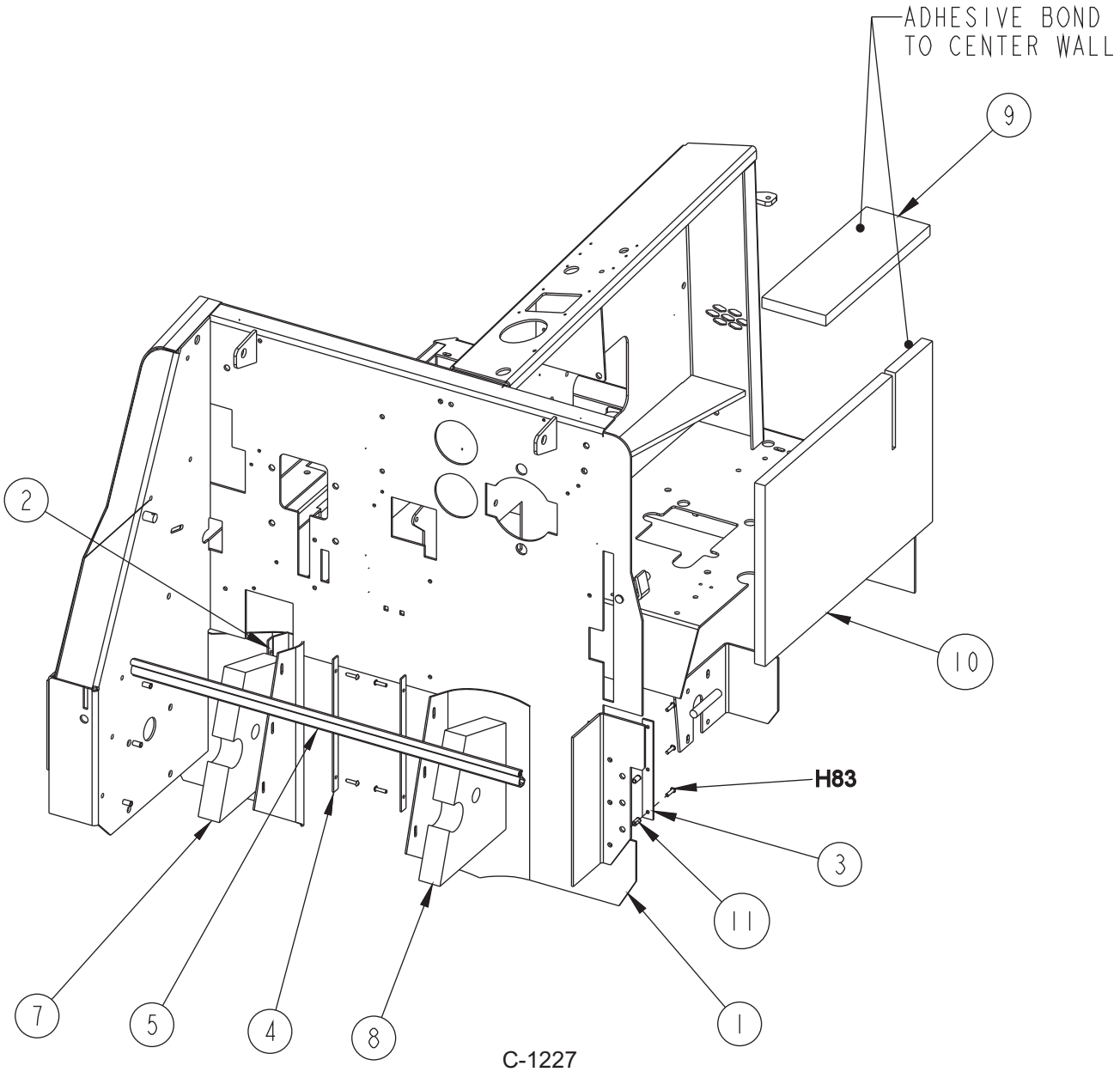

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Item	Ref. No.	Qty	Description
1	8-25-08211	2	Flap, Wheel Well
2	8-13-07142	2	Clamp, Wheel Well Flap (Front)
3	8-13-07148	2	Clamp, Wheel Well Flap (Rear)
4	8-13-07147	2	Clamp, Wheel Well Flap (Front)
5	8-68-05090	1	Seal, Broom Chamber/Dump Door
6	2-00-05261	1	Threaded Insert
7	8-68-05088	1	Seal, Wheel Well (Right)
8	8-68-05089	1	Seal, Wheel Well (Left)
9*	8-34-09028	1	Insulation, Top
10*	8-34-09034	1	Insulation, Side
11	2-00-05261	12	Threaded Insert, 1/4-20

HARDWARE USED:

H83	2-00-04877	12	Screw, 1/4-20 x 1.000 BHS

* Use on Gas/LP & Diesel Machines Only

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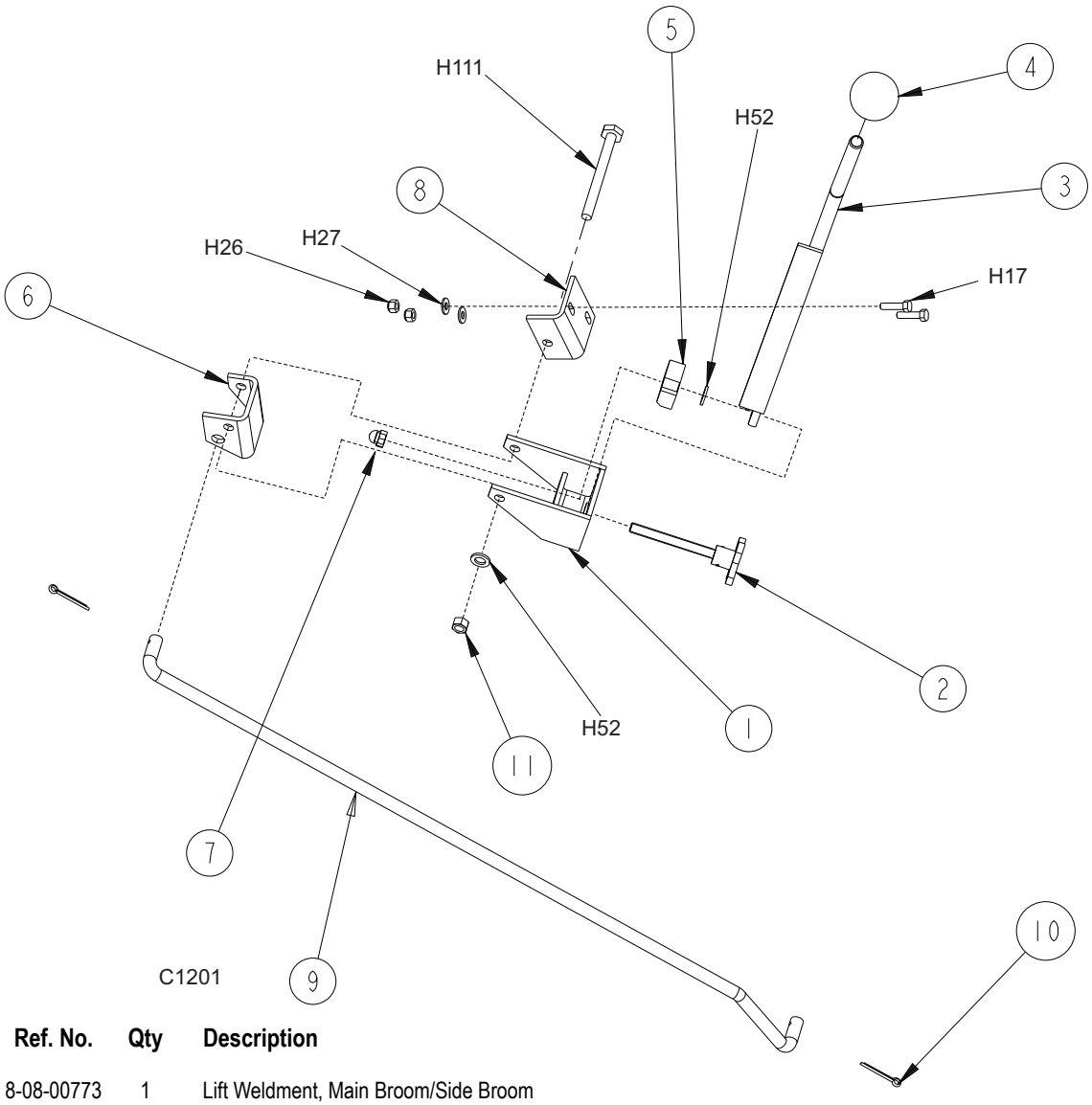

Item	Ref. No.	Qty	Description
1	8-08-00773	1	Lift Weldment, Main Broom/Side Broom
2	8-39-00017	1	Main Broom Knob Assembly
3	8-66-00166	1	Lever Handle
4	8-39-00003	1	Small Control Knob
5	8-50-03002	1	Broom Adjustment Block
6	8-08-00831	1	Main Broom Adjustment Angle
7	2-00-00656	1	Nut-Hex Cap 1/2-13 Brass/Chrome
8	8-08-00779	1	Pivot, Main Broom Lift
9	8-66-00180	1	Rod, Main Broom Linkage
10	2-00-00776	2	Cotter Pin
11	2-95-04182	1	Nut, Elastic Stop

HARDWARE USED:

H17	2-00-00205	2	Screw, 1/4-20 x 1.000 HHC
H26	2-00-00641	2	Nut, 1/4-20 Insert Fiber
H27	2-00-03702	2	Washer, .625 x .281 x .063
H52	2-00-00402	1	Flat Washer, .750 x .390 x .094
H111	2-00-03296	1	Screw, 3/8-16 x 4.000 HHC

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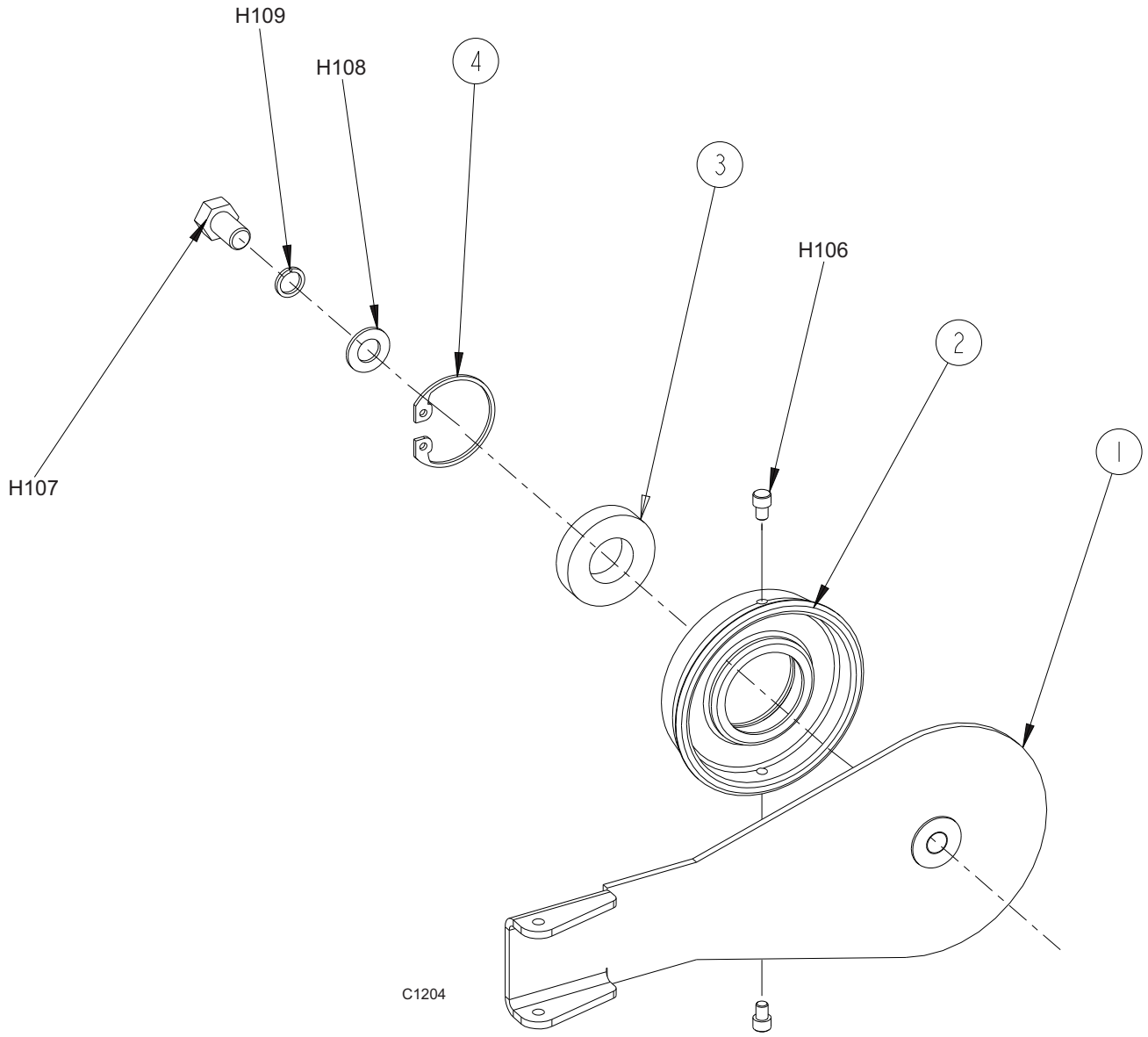

Item	Ref. No.	Qty	Description
1	8-16-00064	1	Broom Idler Arm Weldment
2	8-33-09090	1	Idler, Machined
3	2-00-04889	1	Bearing
4	2-00-04890	1	Retainer Clip

HARDWARE USED:

H106	2-00-04886	2	Screw, 3/8-16 x .500 HSHC
H107	2-00-04887	1	Screw
H108	8-75-01157	1	Thrust Washer
H109	2-00-00522	1	Lock Washer, 3/4 Helical Spring

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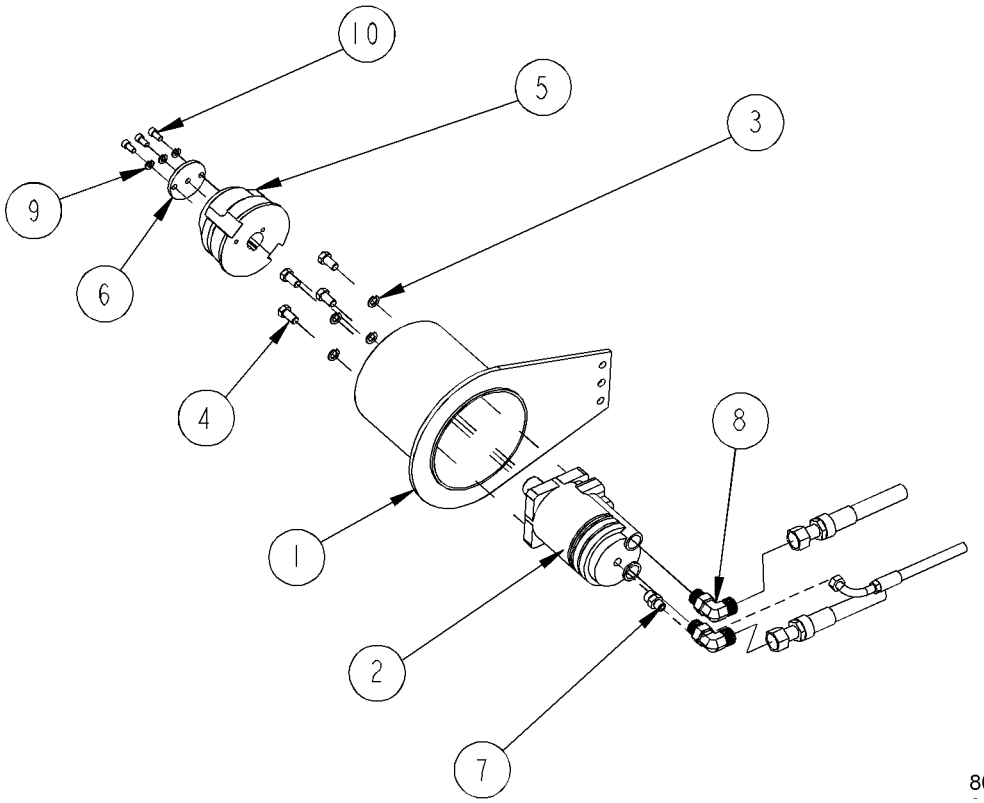

Item	Ref. No.	Qty	Description
1	8-16-00041	1	Driver, Broom Arm
2	0882-040	1	Motor, Hydraulic (3 Cyl. Only)
	0882-037	1	Motor, Hydraulic (2 Cyl. Only)
3	2-00-02310	4	Lock Washer, 3/8 Helical Spring
4	2-00-00232	4	Bolt, 3/8-16 x .75 Fin. Hex Head
5	8-33-09046-1	1	Hub, Broom Driver
6	8-58-05160	1	Lock Plate, Broom Driver
7	2-00-04895	1	Fitting, Straight Connector
8	2-00-04885	2	Fitting, 90° Elbow (O-Ring)
9	2-00-00518	3	Lock Washer, 1/4 Helical Spring
10	2-00-03039	3	Set Screw, 1/4-20 x .625 HSHC

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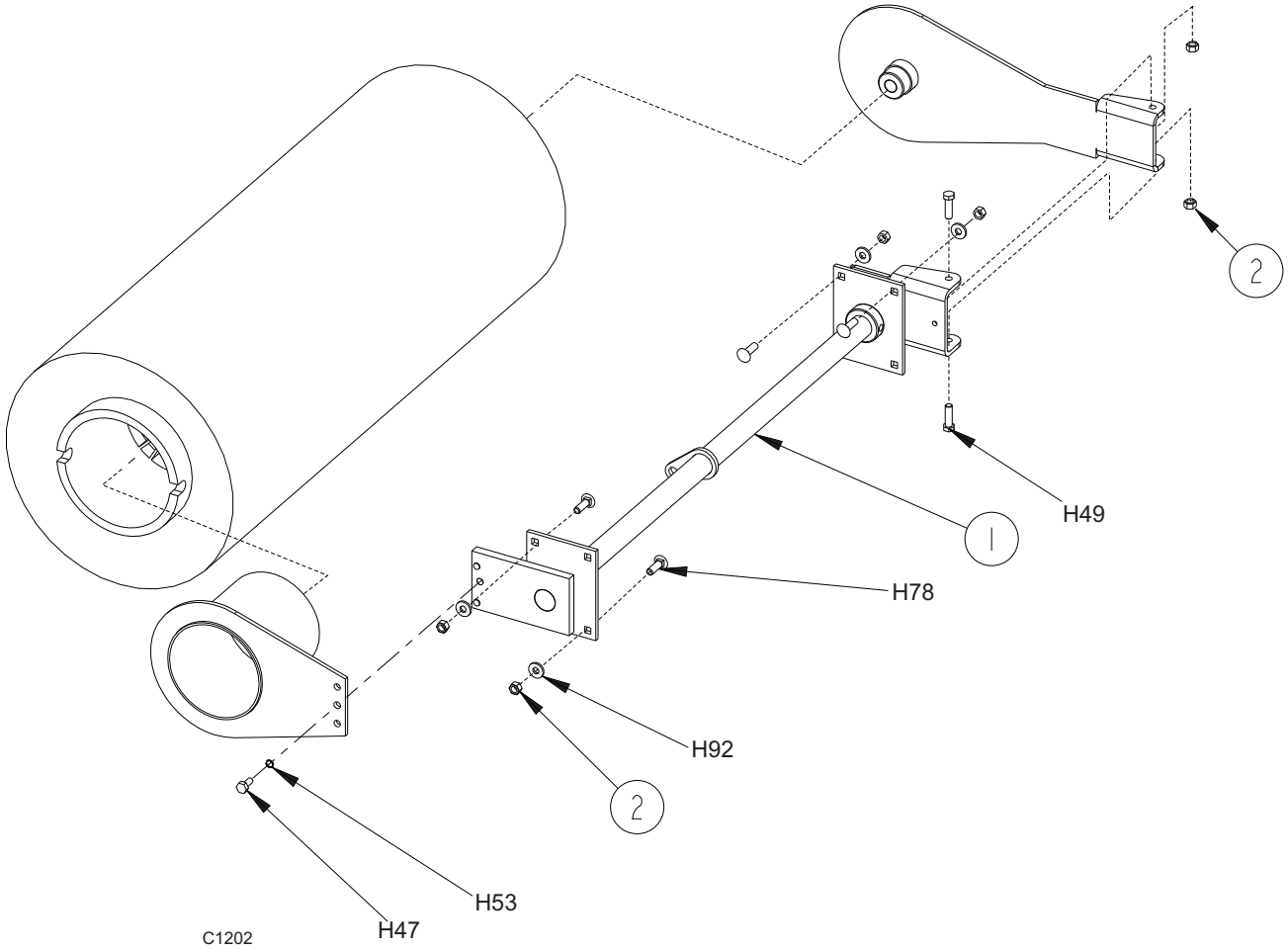

Item	Ref. No.	Qty	Description
1	8-03-04316	1	Main Broom Lift Frame
2	2-95-04182	6	Nut, Elastic Stop

HARDWARE USED:

H47	2-00-00232	1	Screw, 3/8-16 x .750 HHC
H49	2-00-00209	2	Screw, 3/8-16 x 1.250 HHC
H53	2-00-02310	1	Lock Washer, Helical Spring 3/8 Med.
H78	2-00-05187	4	Carriage Bolt, 3/8-16 x 1.250
H92	2-00-04801	4	Flat Washer, .875 x .375 x .125

Main Broom Options

N/S	8-08-03224	Ref.	Proex
N/A	8-08-03225	Ref.	Proex and Wire Main Broom
N/S	8-08-03226	Ref.	Nylon
N/S	8-08-03227	Ref.	Nylon, High Density Main Broom
N/S	8-08-03228	Ref.	Fiber and Wire High Density Main Broom

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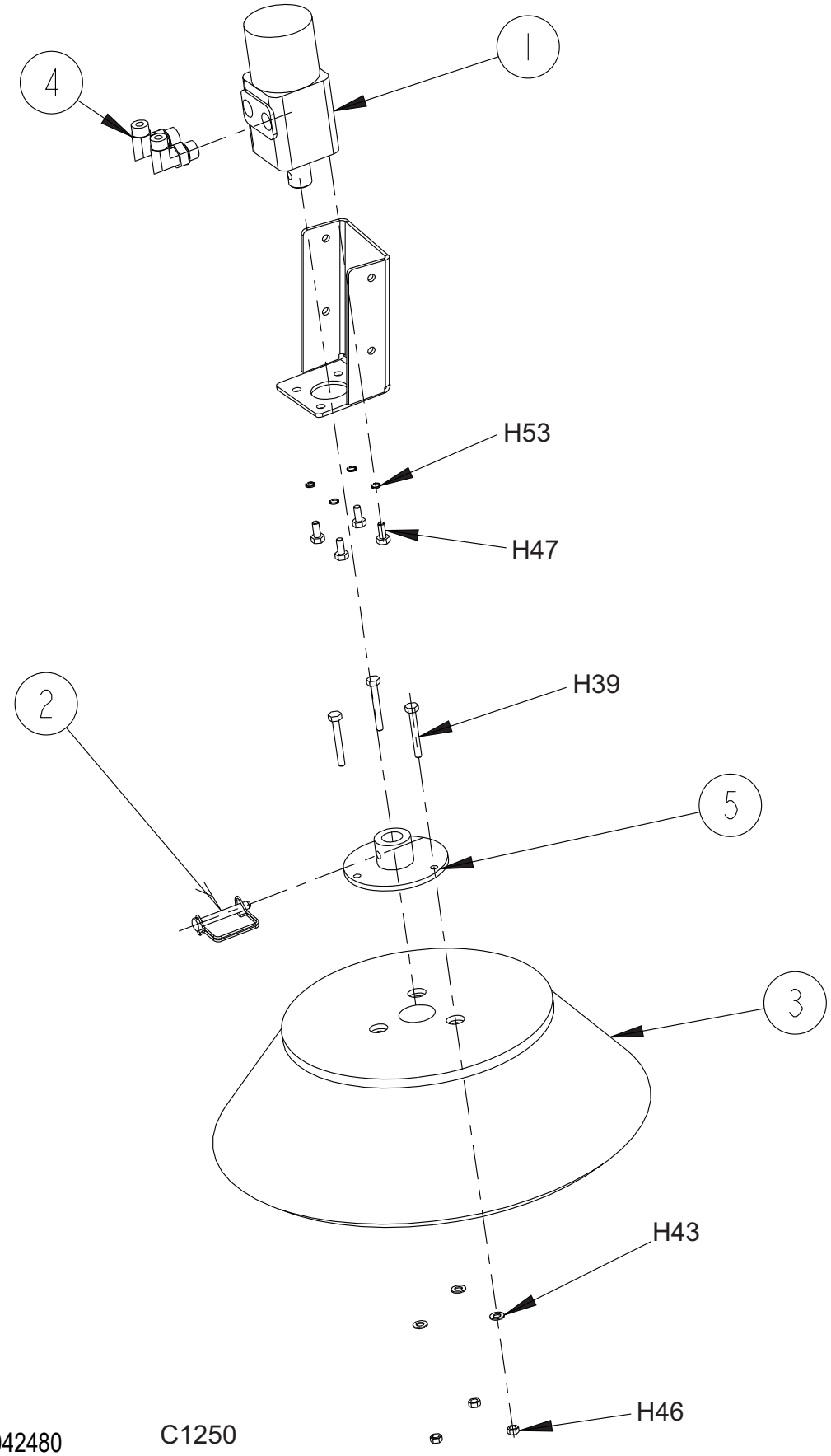

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Item	Ref. No.	Qty	Description
1	0882-050	1	Side Broom Motor
2	8-55-08122	1	Pin, Side Broom Flange
3	8-08-03211	1	Side Broom
4	2-00-04921	2	Fitting
5	8-33-09091	1	Hub, Side Broom Weldment

HARDWARE USED:

H43	2-00-00409	3	Flat Washer, .687 x .344 x .062
H46	2-00-00644	3	Nut, 5/16-18, Insert Fiber
H47	2-00-00232	4	Screw, 3/8-16 x .750 HHC
H53	2-00-02310	4	Lock Washer, Helical Spring 3/8 Med.
H84	2-00-00218	3	Screw, 5/16-18 x 2.00 HHC

Side Broom Options

N/S	8-08-03212	Ref.	Black Prolene Side Broom
N/S	8-08-03211	Ref.	Nylon Side Broom

0880-439
Wire Bristle Side Broom Option

N/S	8-08-03199	1	Wire Side Broom
N/S	8-58-05248	1	Plate
N/S	2-00-04121	3	Screw #10 - 13 x .750 RHW

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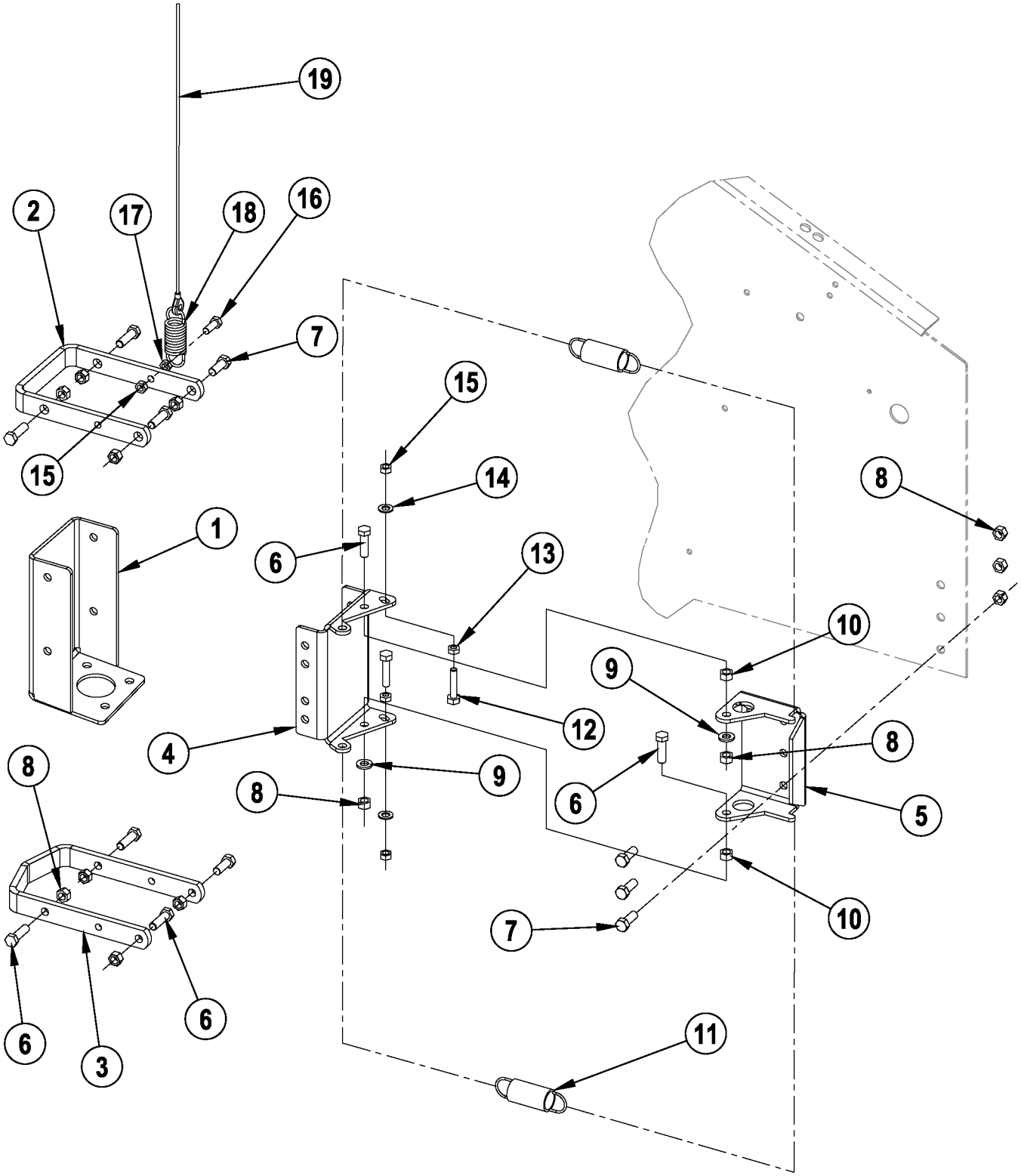

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Item	Ref. No.	Qty	Description
1	8-08-00772	1	Bracket,Sb
2	8-42-05136-1	1	Link-Side Broom Lift
3	8-42-05136	1	Link-Side Broom Lift
4	8-08-00846	1	Bracket-Pivot-Side Broom
5	8-08-00790	1	Bracket-Side Broom
6	2-00-00209	8	Bolt, Hex Head, 3/8-16 X 1 1/4 Ss
7	2-00-00233	5	Bolt-Hex Head, Finished, 3/8-16 X 1.00
8	2-95-04182	13	Nut, Hex, Stop, 3/8-16
9	2-00-00402	2	Washer, 25/64" Id X 3/4" Od
10	2-00-02360	2	Nut, Hex, 3/8-16
11	7-76-00101	2	Spring-Brush Load
12	2-00-02709	2	Screw, 5/16-18 X 1.50 Lg, Full Thread, Hhc
13	2-00-00585	2	5/16-18, Hex Nut
14	2-00-00409	2	Flat Washer, .687 X .344 X .062
15	2-00-00644	3	Nut, Hex, Insert Fiber, 5/16-18
16	2-00-05356	1	5/-18 X 1.25", Hex Head Screw
17	2-00-00586	1	Nut, Jam 5/16-18
18	56109182	1	Spring, Extension
19	56109183	1	Cable-Side Broom (Right Side)

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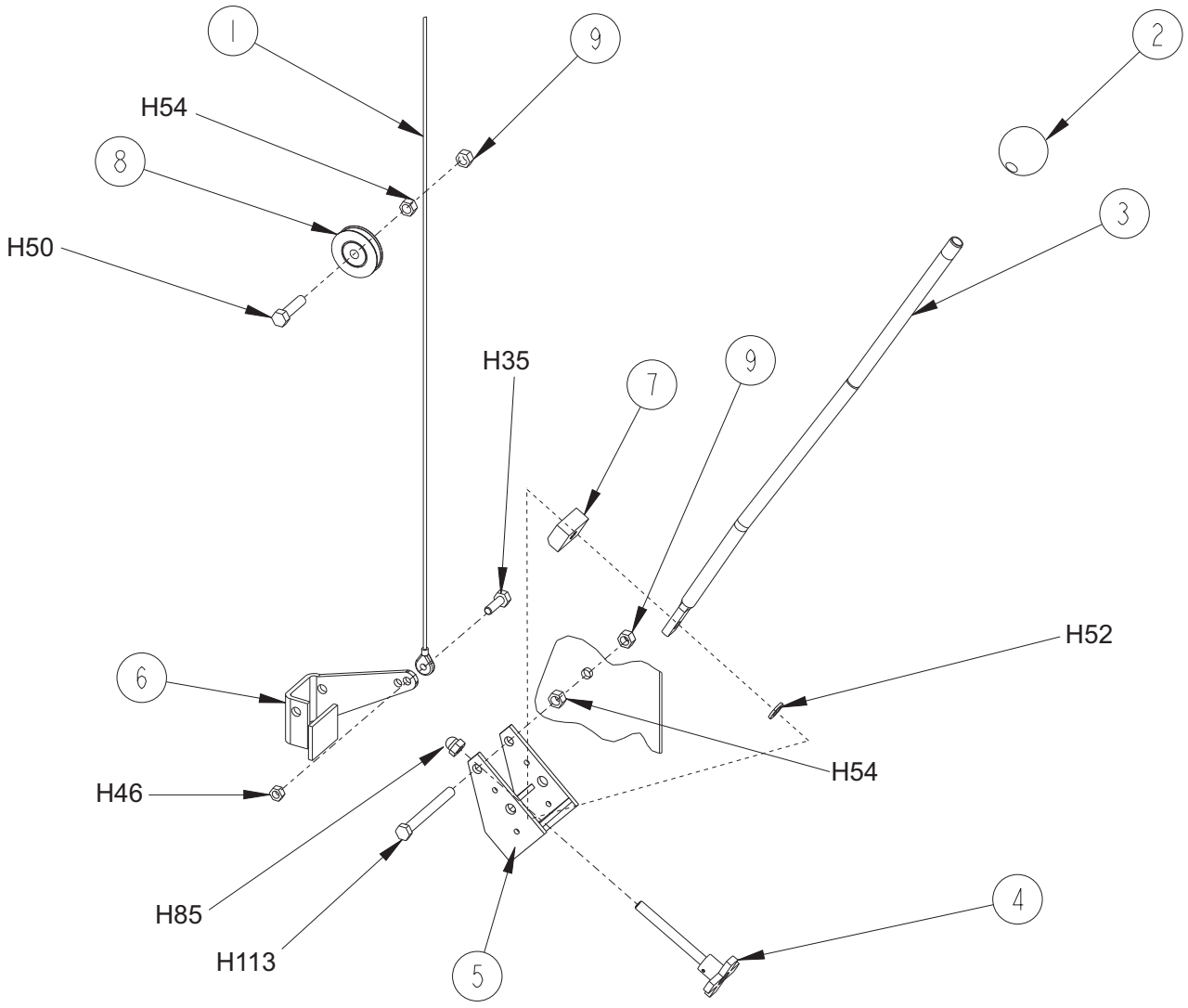

C-1218

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Item	Ref. No.	Qty	Description
1	56109270	1	Cable
2	8-39-00003	1	Control Knob
3	8-66-00167	1	Lever Handle, Side Broom
4	8-39-00013	1	Knob Assembly
5	8-08-00773	1	Broom Lift Weldment
6	8-08-00866	1	Bracket, Side Broom Angle Adjustment
7	8-50-03002	1	Broom Adjustment Block
8	7-60-00160	1	Pulley, Cable
9	2-95-04182	2	Nut, Fibre

HARDWARE USED:

H35	2-00-01255	1	Scr-HHC .313-18 x .875 GR5 ZN
H46	2-00-00644	1	Nut, 5/16-18, Insert Fiber
H50	2-00-00234	1	Screw, 3/8-16 x 1.500 HHC
H52	2-00-00402	1	Flat Washer, .750 x .390 x .094
H54	2-00-02360	2	Nut, 3/8-16 Hex.
H85	2-00-00650	1	Nut, Cap 3/8-16 Low Crown
H113	2-00-02603	1	Screw, 3/8-16 x 3.50 HHC

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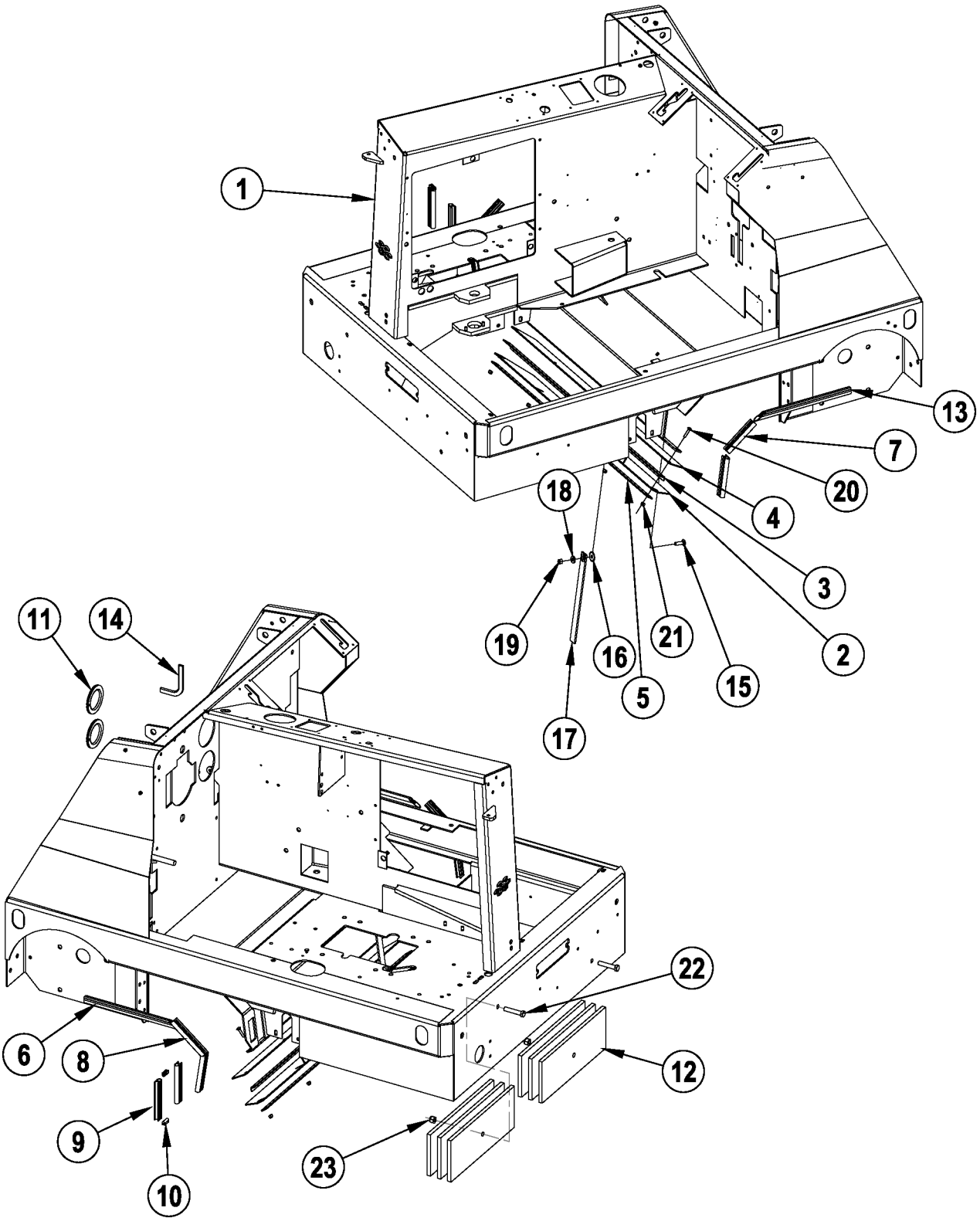

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Item	Ref. No.	Qty	Description
1	8-27-07121	1	Frame Weldment
2	8-25-08213	1	Flap, Broom Chamber Outer
3	8-13-07143	1	Clamp, Broom Chamber Inner
4	8-25-08214	1	Flap, Broom Chamber Inner
5	8-13-07144	1	Clamp, Broom Chamber Outer
6	8-29-00257	1	Gasket
7	8-29-00232	1	Gasket
8	8-29-00234	1	Gasket
9	8-29-00233	3	Gasket
10	8-21-04048	2	Edging
11	7-21-03003	2	Edging
12	8-89-04016	6	Weight, 13.5 lbs.
13	8-29-00256	1	Gasket
14	8-21-04015	1	Edging
15	2-00-05187	1	Bolt Carr. 3/8-16 x 1.25 GR5 ZN
16	2-00-03829	1	Lk Wash Int/Ext Tooth ZN
17	56416517	1	Static Strap
18	2-00-04801	1	Wshr-Flat .875 x .380 x .120 TH ZN
19	2-95-04182	1	Nut – EL. Stop 3/8-16 ZN PL
20	2-00-01951	5	Carriage Bolt, 1/4-20 x 1.250
21	2-00-00641	5	Nut, 1/4-20 Insert Fiber
22	2-00-00247	2	Screw, ½ - 13 x 2.500 HHC
23	2-00-04936	2	Nut, ½ - 13 Fiber Lock

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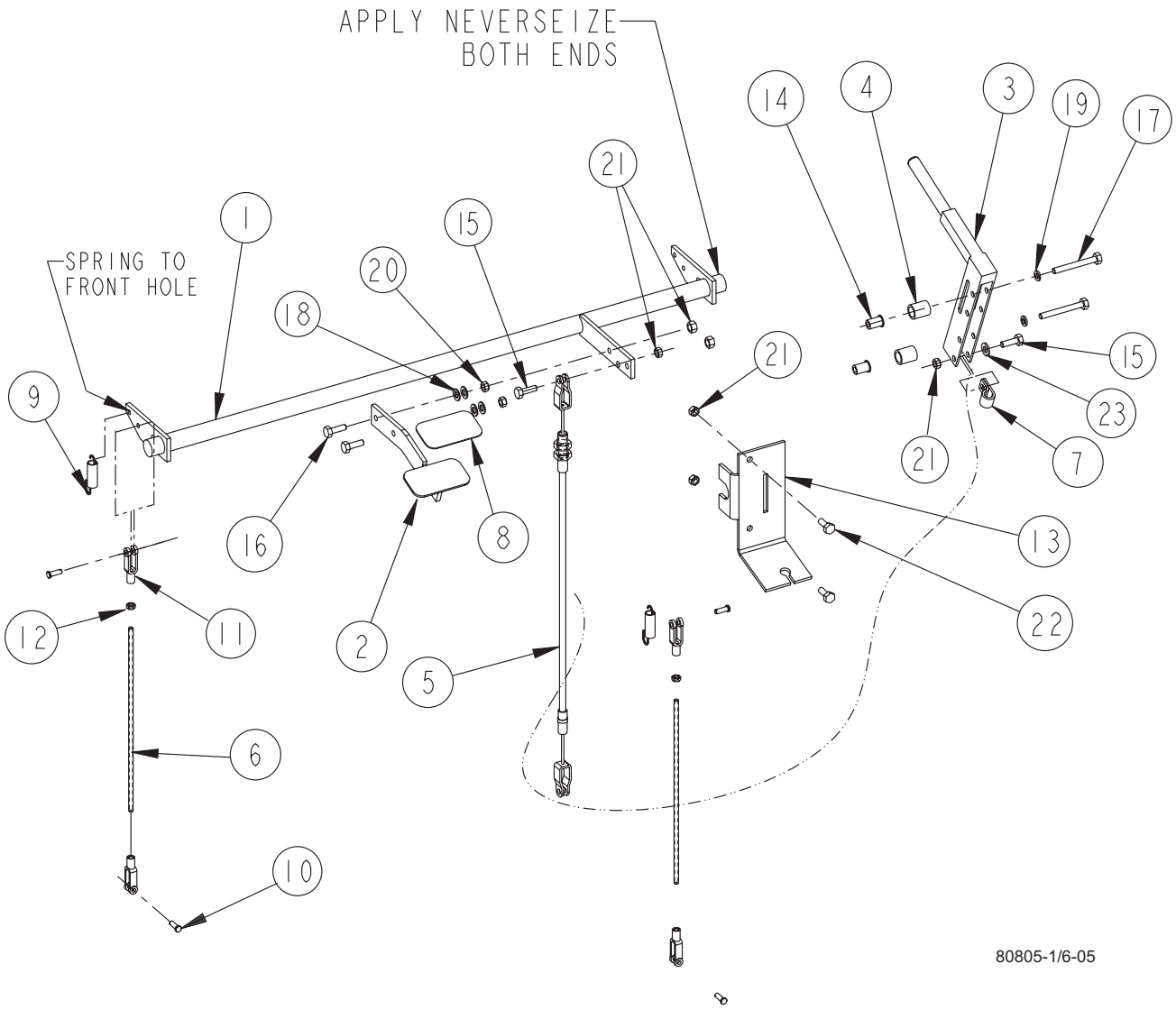

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Item	Ref. No.	Qty	Description
1	8-70-05302	1	Brake Cross Shaft
2	8-55-00037	1	Brake Pedal
3	7-41-05083	1	Lever, Parking Brake
4	8-75-01184	2	Spacer, Lever Mounting
5	8-10-00038	1	Cable
6	8-66-00185	2	Brake Rod (12")
7	2-00-05169	1	Cable Clamp
8	8-50-05063	1	Pad, Pedal
9	7-76-00051	2	Spring
10	2-00-04909	4	Yoke Pin Assembly
11	8-14-01006	4	Clevis
12	2-95-01999	2	Nut, Jam
13	8-08-00833	1	Center Bracket, Brake Linkage
14	2-00-05330	2	Threaded Insert, 5/16-18
15	2-00-02708	1	Screw, 5/16-18 x 1.0 HHM
16	2-00-00207	2	Screw, 5/16-18 x 1.25 HHC
17	2-00-01770	2	Screw, 5/16-18 x 2.75 HHC
18	2-00-00409	4	Flat Washer, .687 x .344 x .062
19	2-00-00530	2	Lock Washer, 5/16 HS Med.
20	2-00-00585	2	Nut, Hex. 5/16-18 x .500 x .265
21	2-00-00644	6	Nut, 5/16-18, Insert Fiber
22	2-00-01255	2	Screw, 5/16-18 x .875 HHC
23	2-00-00402	1	Flat Washer, 0750 x 0391 x .093

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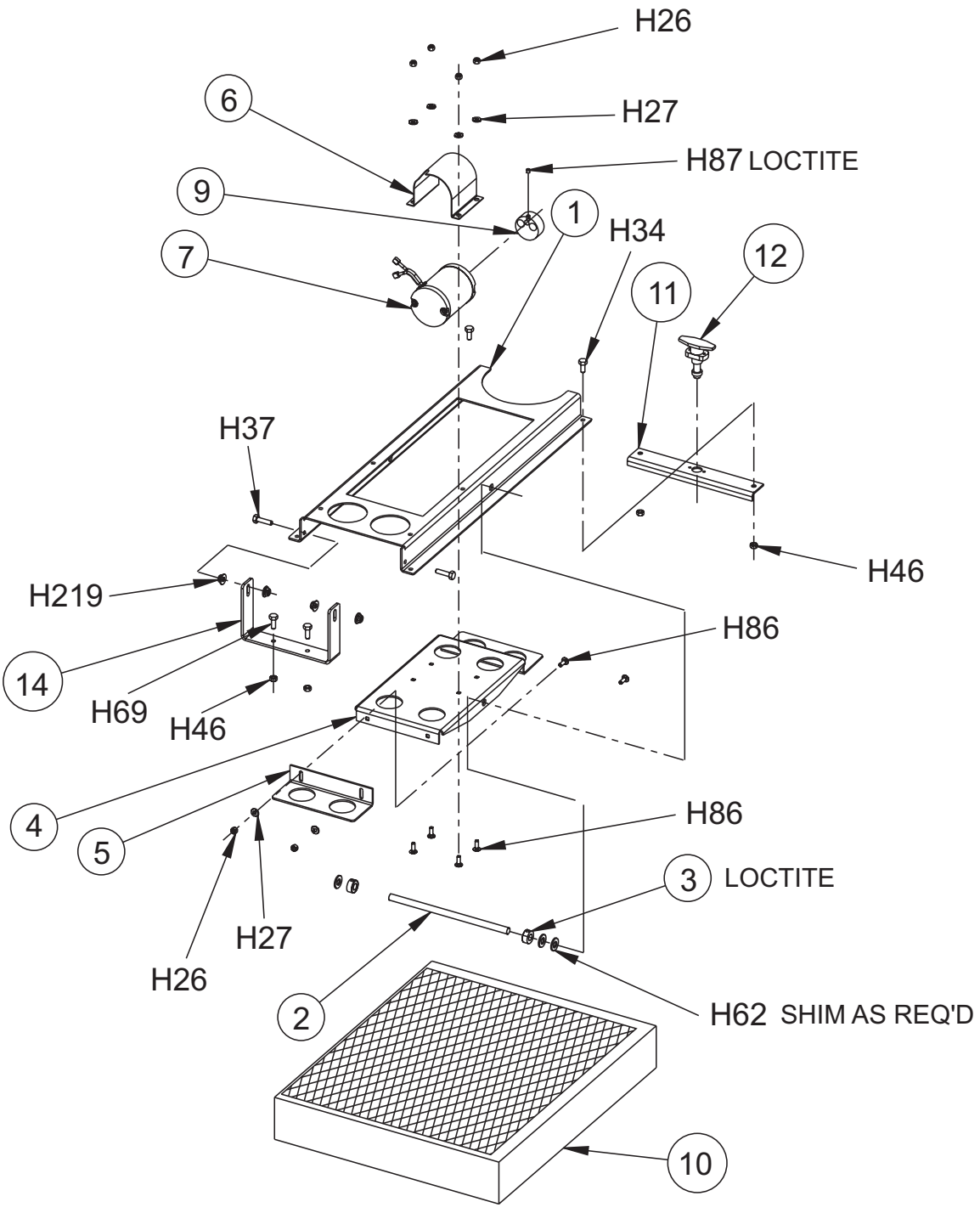

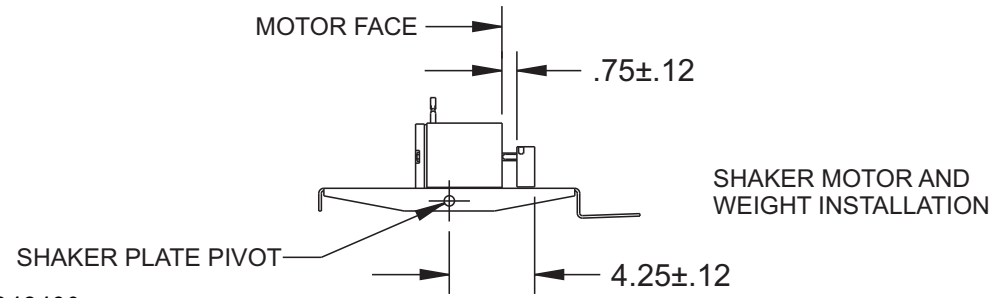

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Item	Ref. No.	Qty	Description
1	8-13-07139	1	Clamp, Filter
2	8-55-08119	1	Pin, Shaker Pivot
3	2-00-03589	2	1/2" Stop Collar
4	8-58-05284	1	Shaker Plate
5	8-03-04302	1	Shaker Arm
6	8-16-07406	1	Filter Shaker Motor Cover
7	0860-623	1	Filter Shaker Motor (12 vdc)
8*	0860-624	1	Filter Shaker Motor (36vdc)
9	8-89-04019	1	Weight
10	8-24-04148	1	Filter
	8-24-04148-2		POLY Filter Option
11	8-13-07121	1	Shaker Mounting Angle
12	8-41-00053	1	Latch
13	8-90-07433	Ref.	Wire, Hopper Shaker
14	8-08-00826	1	Shaker Mounting Angle

Item 13 is shown on the Connection Drawing on page 176, 176A, and 176B

HARDWARE USED:

H26	2-00-00641	6	Nut, 1/4-20 Insert Fiber
H27	2-00-03702	6	Washer, .625 x .281 x .063
H34	2-00-00208	2	Screw, 5/16-18 x .750 HHC
H37	2-00-00207	2	Screw, 5/16-18 x 1.250 HHC
H46	2-00-00644	4	Nut, 5/16-18, Insert Fiber
H62	2-00-00405	3	Flat Washer, 1.063 x .531 x .094
H69	2-00-01255	2	Screw, 5/16-18 x .875 HHC
H86	2-00-03575	6	Carriage Bolt, 1/4-20 x .750
H87	2-00-00263	1	Set Screw, 1/4-20 x .250 HSKCP
H219	2-00-05359	4	Nut, Serrated Flange 5/16-18

For Battery Machine Only

Frame and Shaker Adjustment Instructions:
1.Adjust Frame to Filter - Adjust filter frame pivot bolts and pawl of filter frame latch such that filter gasket compress approximately 1/8".
2.Adjust shaker to filter - Adjust shaker arm (8-03-04302) such that it and shaker plate (8-58-05273) force filter screen to contact filter media. **NOTE:** Do not compress filter media with shaker

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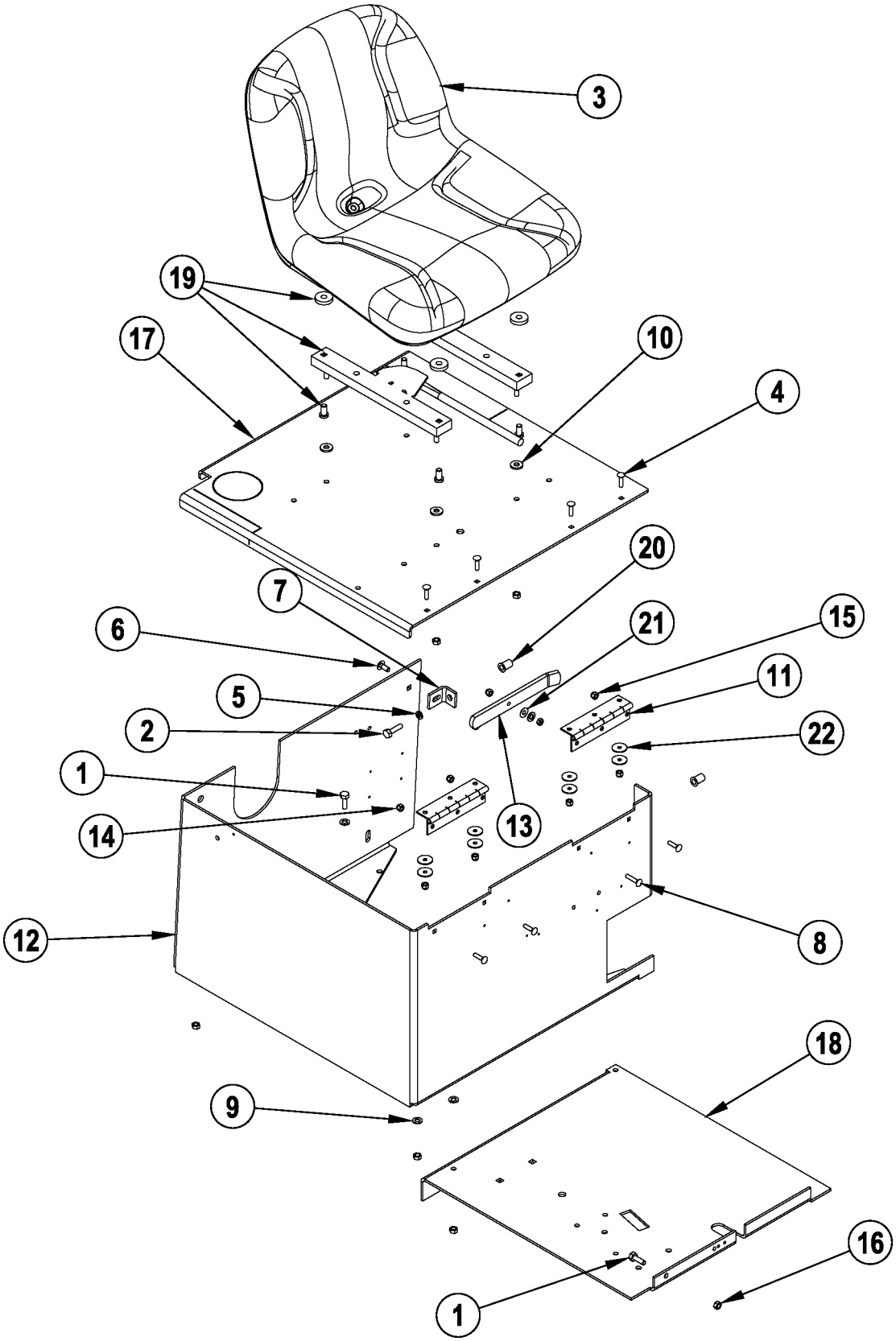

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Item	Ref. No.	Qty	Description
1	2-00-00206	5	Bolt 5/16-18, 3/4 Lg
2	2-00-00207	1	Screw, Hex Head 5/16-18 X 1.25”
3	8-69-00022	1	Seat
4	2-00-02196	7	1/4-20-1 Lg Carriage Bolt
5	2-00-00530	1	5/16” Lock Washer
6	2-00-03569	1	Bolt, Carriage
7	8-08-00834	1	Bracket
8	2-00-01951	1	Carriage Bolt 1/4-20 X 1.25 Lg
9	2-00-00409	7	Flat Washer, .687 X .344 X .062
10	2-00-04801	4	Flat Washer, 1.00 X .39 X .06
11	8-32-00044	2	Hinge-Door
12	8-33-05124	1	Housing-Seat And Fuel
13	8-41-00064	1	Latch-Seat Panel
14	2-00-00641	8	Nut, Fiber Insert 1/4-20
15	2-00-00594	1	Nut, Hex 1/4-20
16	2-00-00644	10	Nut, Hex, Insert Fiber, 5/16-18
17	8-52-00186	1	Panel-Seat Mtg
18	8-58-05782	1	Plate-Floor
19	7-72-05005	1	Slide Adjuster Kit
20	2-00-05330	2	Threaded Insert- 5/16-18
21	7-23-03048	1	Washer-Spr-Shakeproof
22	2-00-01676	8	Wshr-Flat, 1.063x.266x.063 Stl.

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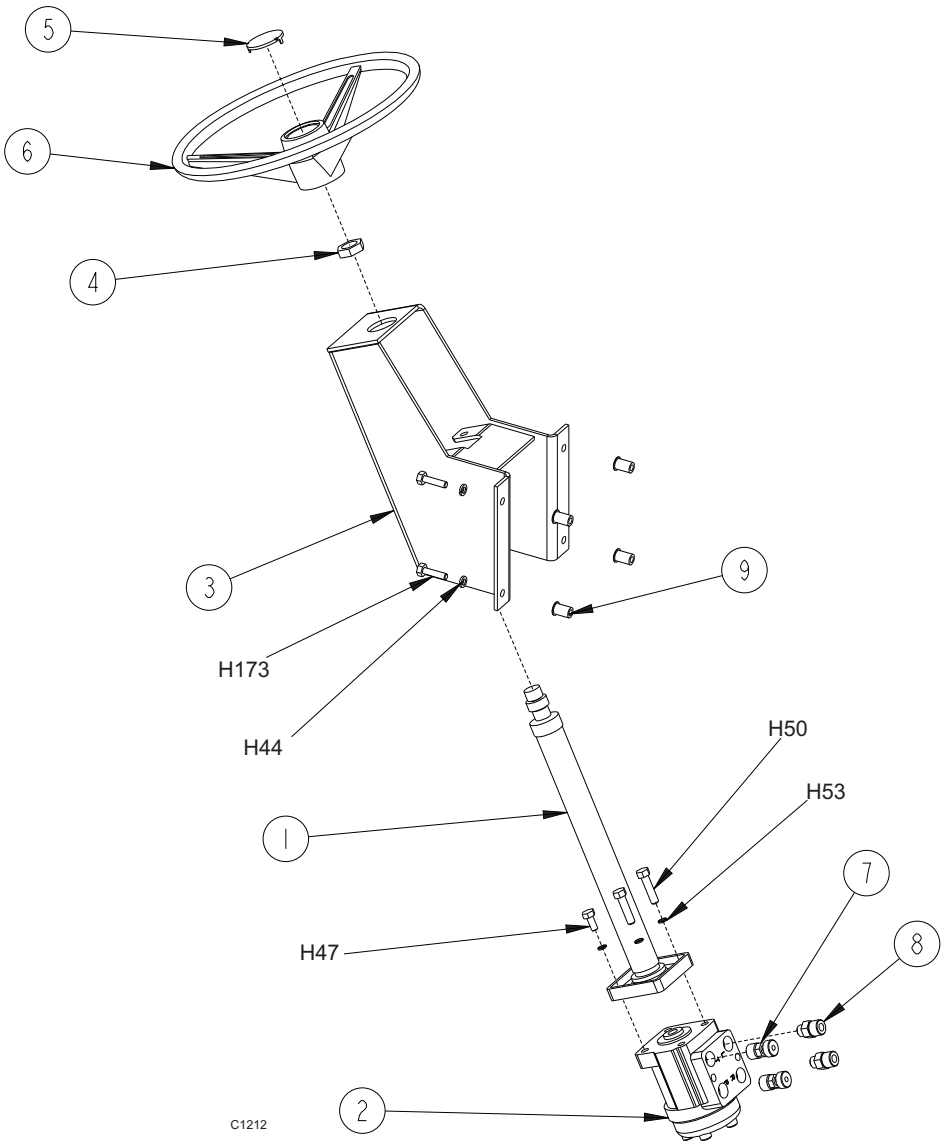

Item	Ref. No.	Qty	Description
1	8-70-05303	1	Steering Column
2	8-60-05026	1	Steering Column Unit
3	8-33-05127	1	Steering, Housing
4	8-23-03072	1	Nut, Special
5	8-11-00052	1	Steering Wheel Cap
6	8-89-08074	1	Steering Wheel
7	2-00-04970	2	Fitting, Connector
8	2-00-05264	2	Fitting
9	2-00-05330	4	Threaded Insert, 5/16-18

HARDWARE USED:

H44	2-00-00530	4	Lock Washer, 5/16 HS Med.
H47	2-00-00232	2	Screw, 3/8-16 x .750 HHC
H50	2-00-00234	2	Screw, 3/8-16 x 1.500 HHC
H53	2-00-02310	4	Lock Washer, Helical Spring 3/8 Med.
H173	2-00-02709	4	Screw, 5/16-18 x 1.500

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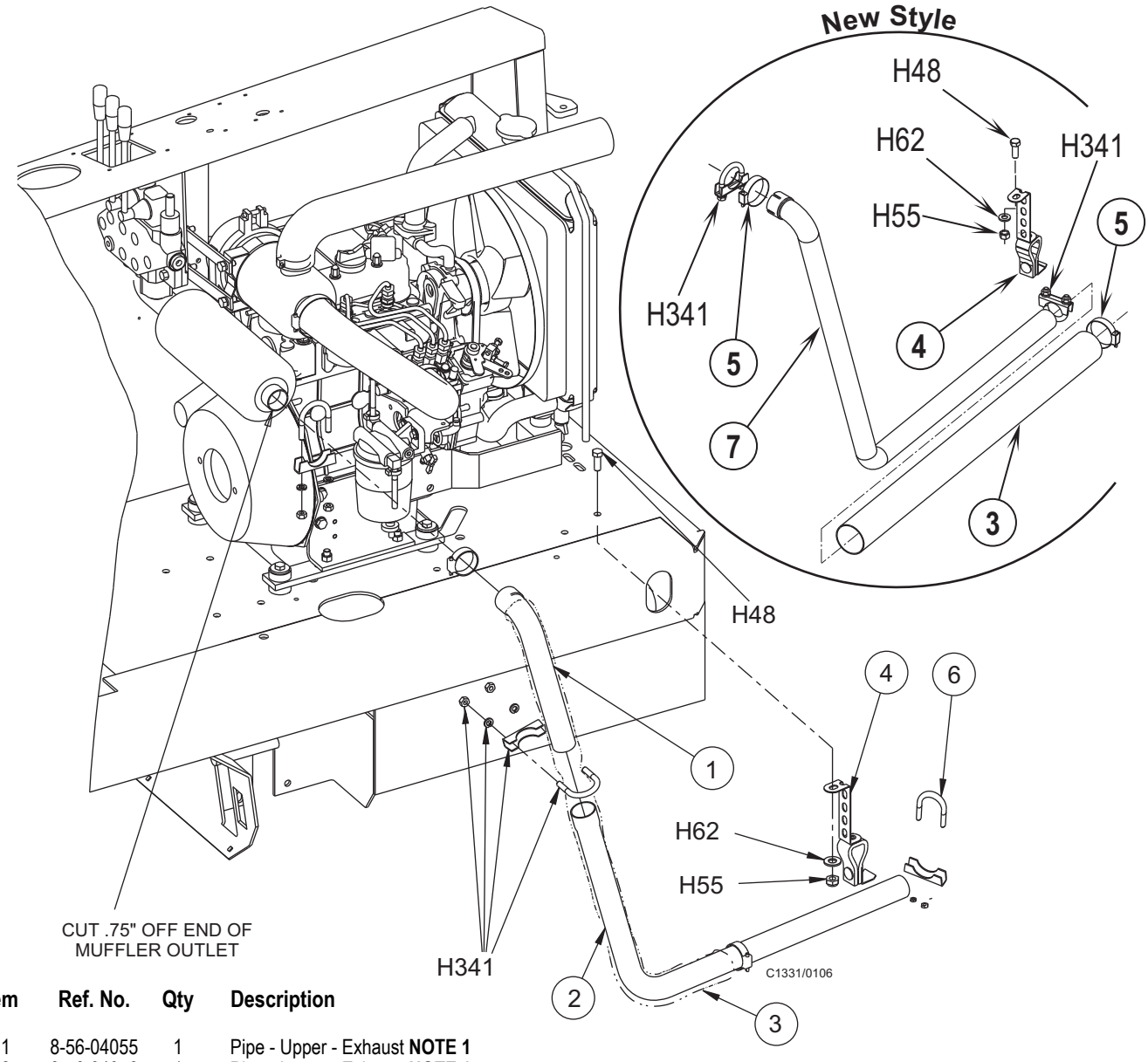

Item	Ref. No.	Qty	Description
1	8-56-04055	1	Pipe - Upper - Exhaust **NOTE 1**
2	8-56-04056	1	Pipe - Lower - Exhaust **NOTE 1**
3	7-34-09015	1	Sleeve - Insulating
4	7-31-07017	1	Hanger, Muffler
5	2-00-03404	2	Clamp
6	7-13-07076	1	Clamp - Muffler 1 3/8
7	56109167	1	Tube, Exhaust **NOTE 2**
[ ]#	7-49-00034	1	Muffler
[ ]#	7-29-00198	1	Muffler Gasket

HARDWARE USED:

H48	2-00-00233	1	Screw, 3/8-16 x 1.000 HHC
H55	2-95-04182	1	Nut, Hex, Stop, 3/8-16
H62	2-00-00402	1	Washer, 25/64" Id X 3/4" OD
H341	2-00-04040	2	Muffler Clamp

= Revised or new since last update

NOTE 1: Old Style Only.
NOTE 2: New Style Only.

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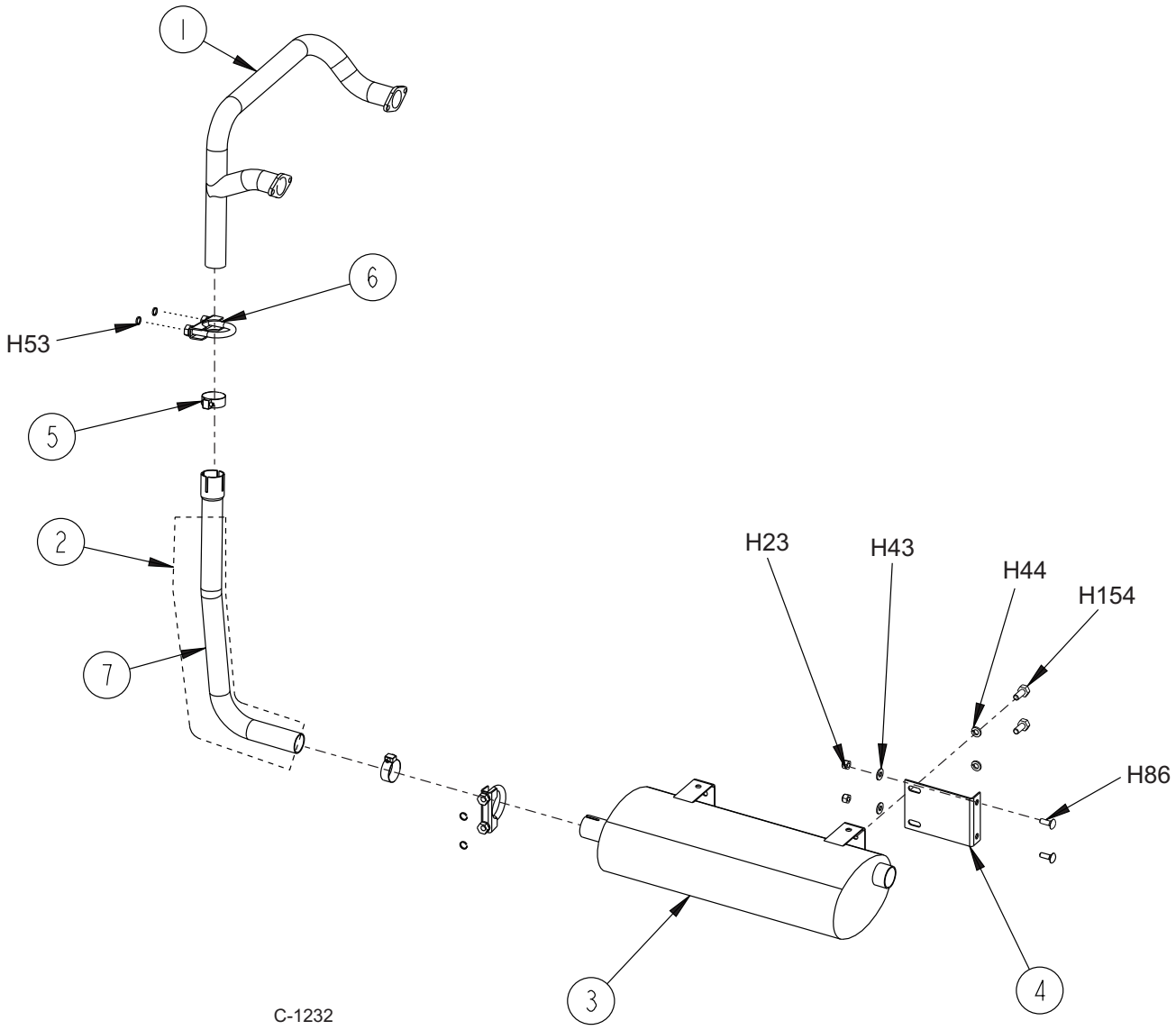

Item	Ref. No.	Qty	Description
1	8-48-00021	1	Exhaust Manifold
2	7-34-09015	1	Sock
3	8-49-00027	1	Muffler
4	8-08-00849	1	Bracket, Muffler
5	2-00-02220	2	Hose Clamp
6	8-13-07066	2	Clamp
7	8-56-04048	1	Exhaust Pipe

HARDWARE USED:

H26	2-00-00641	2	Nut, 1/4-20 Insert Fiber
H43	2-00-00409	2	Flat Washer, .687 x .344 x .062
H44	2-00-00530	2	Lock Washer, 5/16 HS Med.
H53	2-00-02310	4	Lock Washer, Helical Spring 3/8 Med.
H86	2-00-03575	2	Carriage Bolt, 1/4-20 x .750
H154	2-00-04363	2	Screw, M8-1.250 x .750

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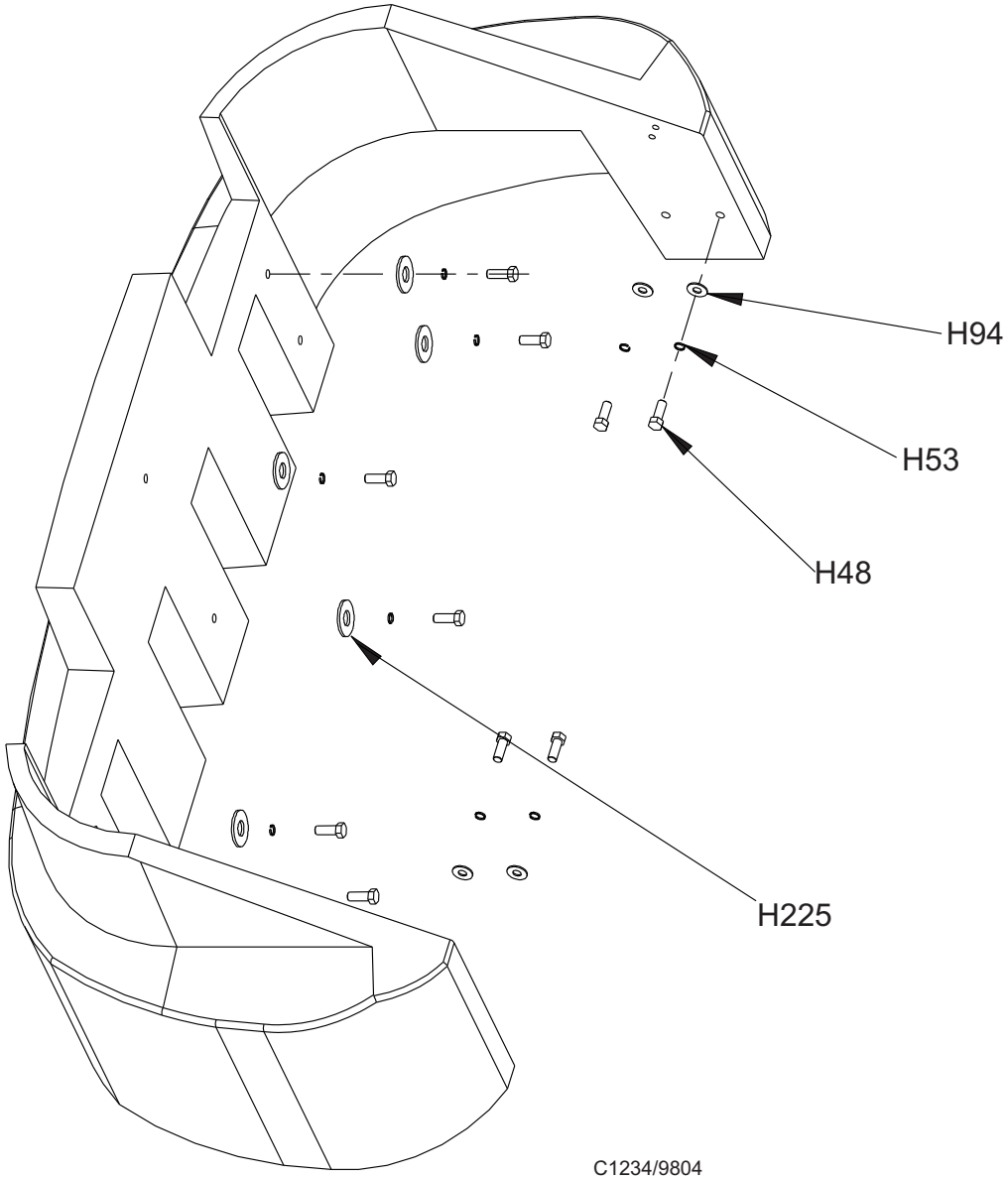

Item	Ref. No.	Qty	Description
1	8-08-05057	1	Front Bumper

HARDWARE USED:

H48	2-00-00232	10	Screw, 3/8-16 x .750 HHC
H53	2-00-02310	10	Lock Washer, Helical Spring 3/8 Med.
H94	2-00-00410	4	Flat Washer, .875 x .375 x .060
H225	2-00-04851	6	Washer, Engine Mount

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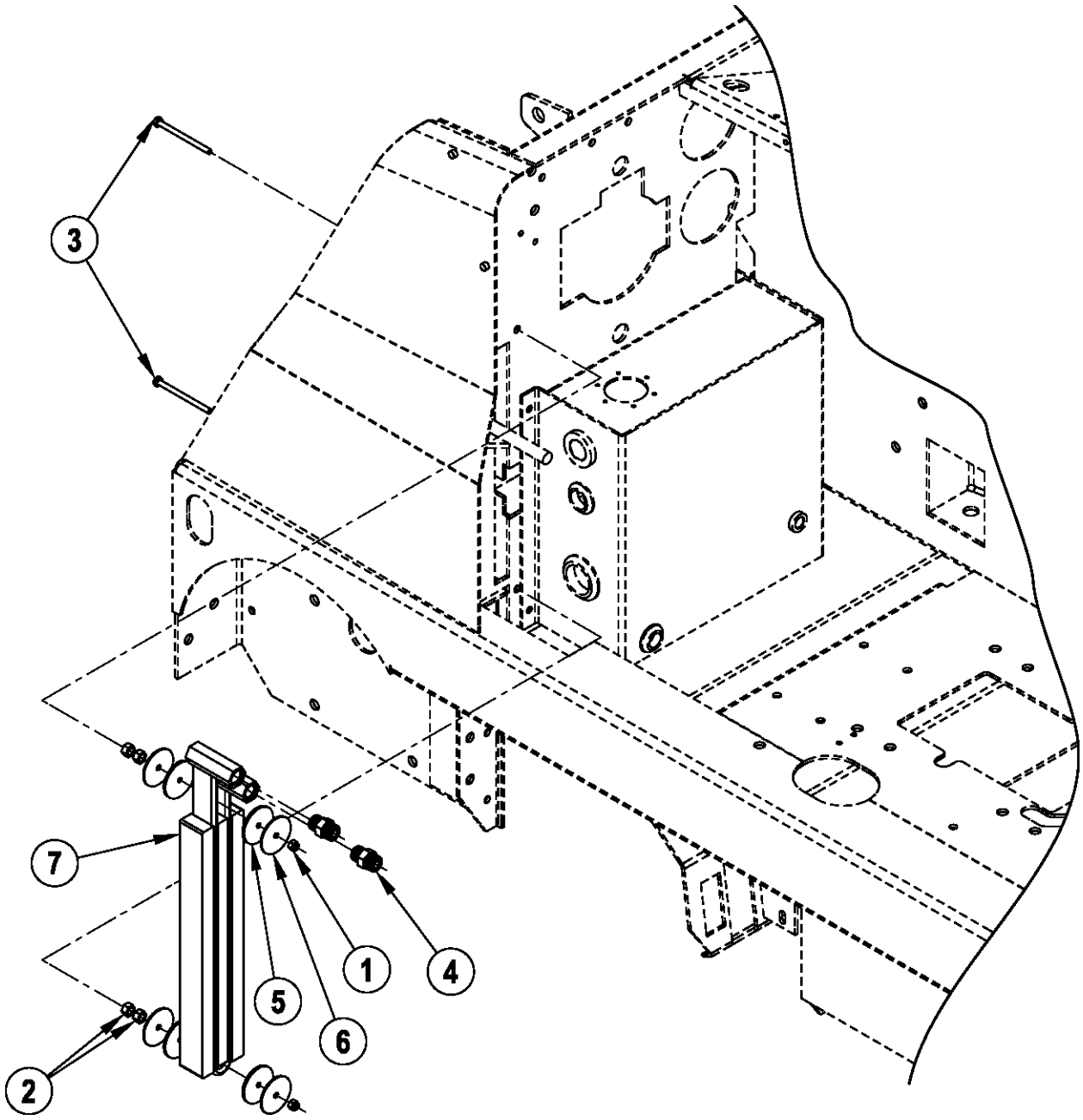

Item	Ref. No.	Qty	Description
1	2-00-00641	2	Nut, Fiber Insert 1/4-20
2	2-00-02360	4	Nut, Hex, 3/8-16
3	2-00-04596	2	Screw, 1/4-20 X 3.50", Hex Head
4	2-00-04970	2	Fitting, Str. -8 ORS x -8 SAE
5	2-00-05028	4	Washer-Flat 2.00 OD X .281 X .125
6	2-00-05236	4	Washer-Flat 2.00 OD X .28 X .08
7	8-62-01018	1	Oil Cooler **NOTE**

NOTE: If replacing hydraulic oil cooler number 8-62-01010 with the new oil cooler 8-62-01018 you will also need to order two of the fittings 2-00-04970, because the cooler 8-62-01010 had fittings built in.

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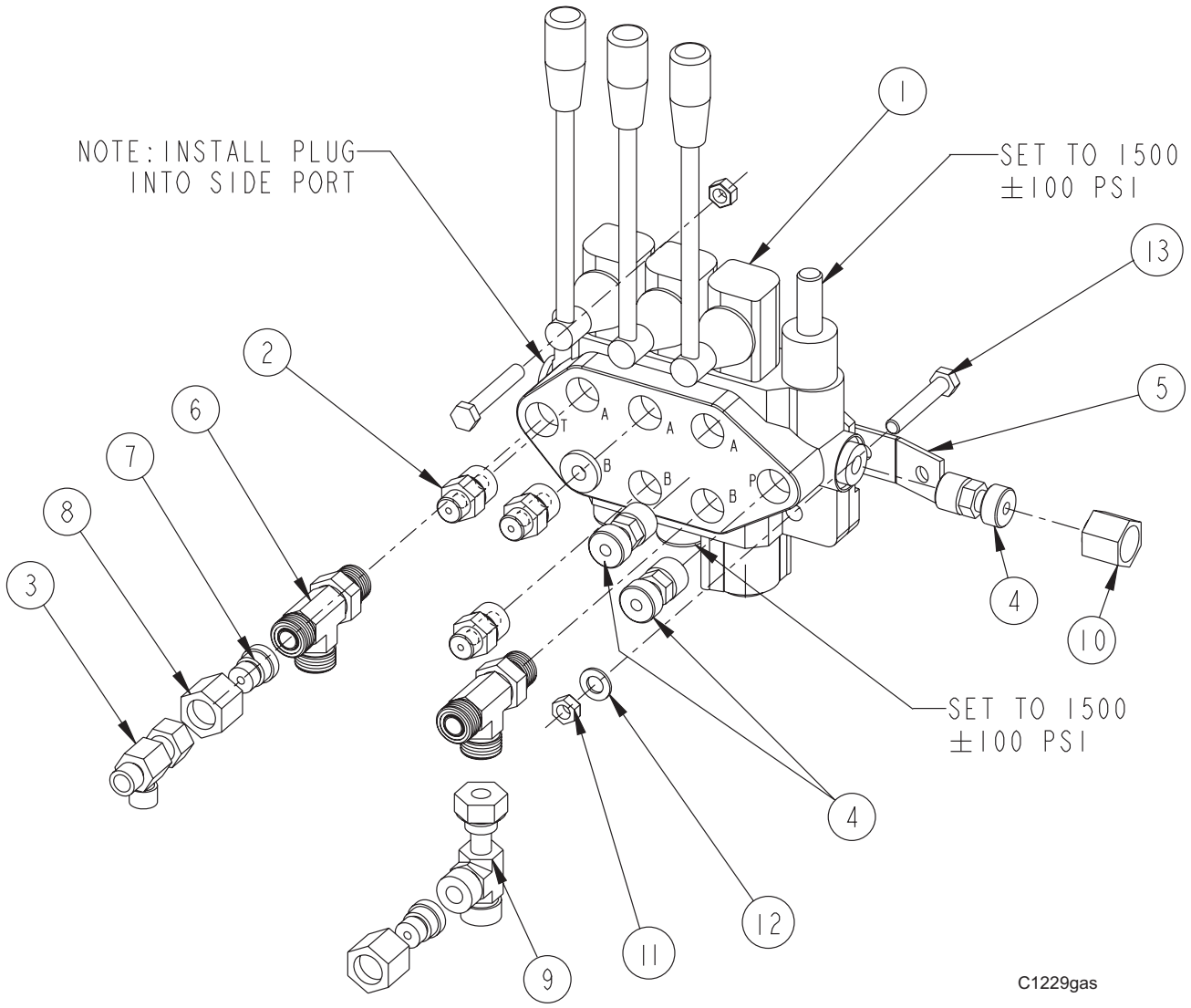

Item	Ref. No.	Qty	Description
1	8-88-00060	1	Control Valve
[ ]	7-88-00068	A/R	Relief Valve (2500) **(replacement part for 8-88-00060)**
[ ]	7-70-00095	A/R	Seal Kit **(replacement part for 8-88-00060)**
[ ]	56109168	A/R	Knob **(replacement part for 8-88-00060)**
[ ]	56504492	A/R	Boot, Neoprene **(replacement part for 8-88-00060)**
[ ]	56504493	A/R	Handle, M10 x 180 **(replacement part for 8-88-00060)**
2	2-00-05264	3	Fitting
3	2-00-05162	1	Fitting - Tee
4	2-00-04970	3	Fitting, Connector
5	8-13-07153	Ref	Mounting Bracket
6	2-00-04924	2	Fitting, Run Tee
7	2-00-04929	2	Fitting, Reducer

Item	Ref. No.	Qty	Description
8	2-00-04939	2	Fitting, Nut for Reducer
9	2-00-04928	1	Fitting, Tee
10	2-00-04957	1	Fitting
11	2-00-00644	2	Nut, 5/16-18, Insert Fiber
12	2-00-00409	1	Flat Washer, .687 x .344 x .062
13	2-00-00218	2	Screw, 5/16-18 x 2.000 HHC

[ ] = Not Shown

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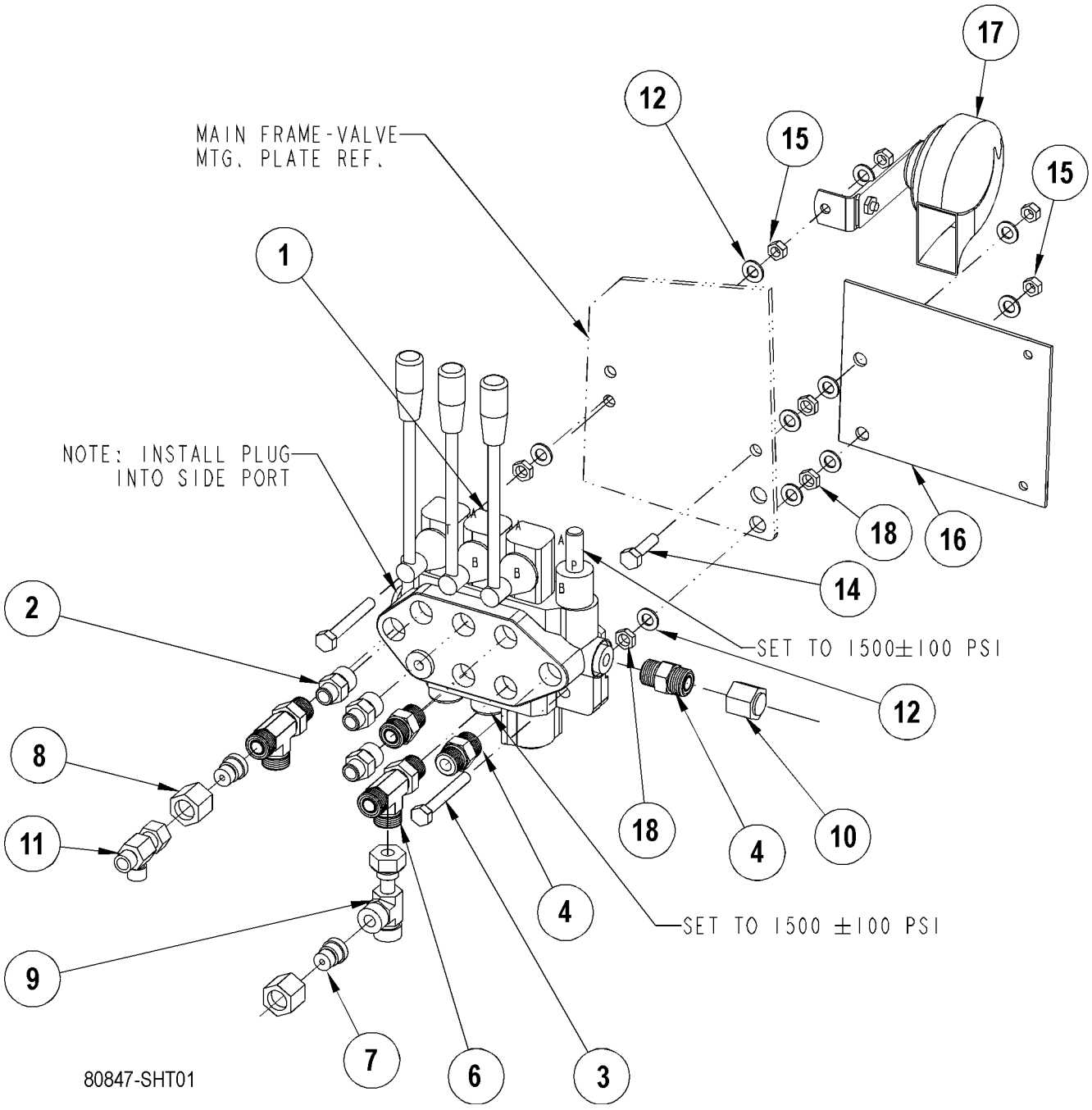

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Item	Ref. No.	Qty	Description
1	8-88-00060	1	Control Valve
[ ]	7-88-00068	A/R	Relief Valve (2500) **(replacement part for 8-88-00060)**
[ ]	7-70-00095	A/R	Seal Kit **(replacement part for 8-88-00060)**
[ ]	56109168	A/R	Knob **(replacement part for 8-88-00060)**
[ ]	56504492	A/R	Boot, Neoprene **(replacement part for 8-88-00060)**
[ ]	56504493	A/R	Handle, M10 x 180 **(replacement part for 8-88-00060)**
2	2-00-05264	3	Fitting
3	2-00-00228	2	Screw, .313-18 x 2.50 HHC
4	2-00-04970	3	Fitting - Connector
5			Intentionally Omitted
6	2-00-04924	2	Fitting - Run Tee
7	2-00-04929	2	Fitting - Reducer
8	2-00-04939	2	Fitting - Nut for Reducer
9	2-00-04928	1	Fitting - Tee
10	2-00-04957	1	Fitting
11	2-00-05162	1	Fitting - Run Tee
12	2-00-00409	10	Flat Washer, .687 x .344 x .062
13			Intentionally Omitted
14	2-00-00207	1	Screw, .313-18 x 1.25 HHC
15	2-00-00644	4	Nut, 5/16-18, Insert Fiber
16	8-08-00956	Ref	Bracket - Air Cleaner
17	8-32-09013	Ref	Horn
18	2-00-02369	4	3/8-16 Nut

[ ] = Not Shown

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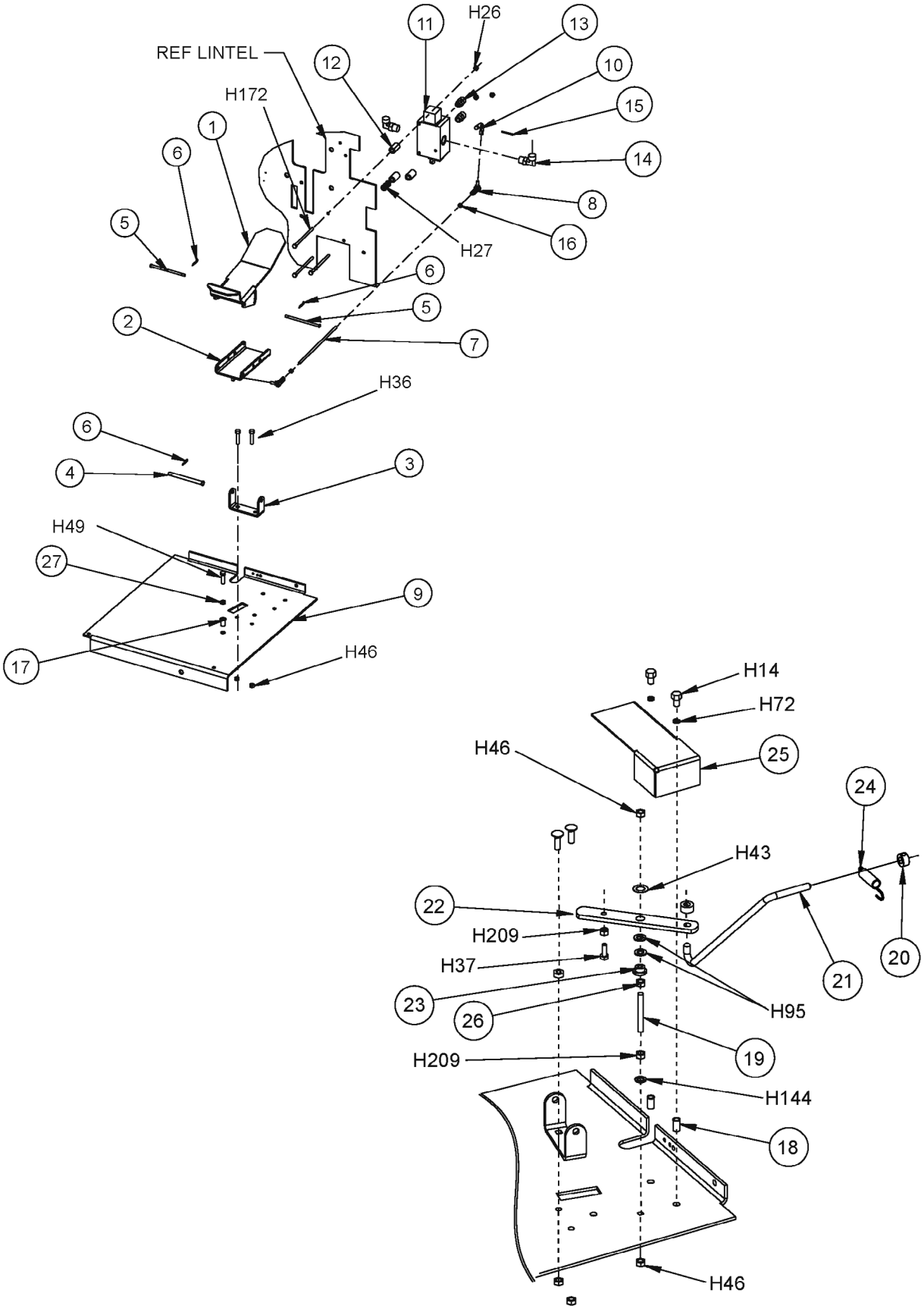

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Item	Ref. No.	Qty	Description
1	8-55-00034	1	Adjustable Foot Pedal
2	8-55-00036	1	Pedal Base
3	8-08-00782	1	Bracket
4	2-00-05246	1	Pin
5	2-00-05247	2	Pin
6	2-00-05249	3	Cotter Pin
7	8-66-00182	1	Rod, Control Valve
8	7-25-02050	2	Rod End
9	8-58-05782	1	Floor Plate
10	8-41-05084	1	Lever, Valve
11	8-88-00063	1	Valve
12	8-75-01212	3	Spacer
13	2-00-04970	2	Fitting, Connector
14	2-00-04885	2	Fitting, 90° Elbow
15	2-00-04749	1	Spring Pin
16	2-95-01999	2	Nut, Hex
17	2-00-05347	1	Threaded Insert, 3/8-16
18	2-00-05261	2	Threaded Insert, 1/4-20
19	8-66-00186	1	Rod, Speed Limiter
20	7-15-01022	2	Collar
21	8-42-05140	1	Link, Speed Limiter
22	8-03-04317	1	Arm, Speed Limiter
23	7-09-01057	1	Bushing
24	7-76-00051	1	Spring Pin
25	8-16-07389	1	Cover
26	2-00-00646	1	Nut, Stop .313 - 18 STL
27	2-00-02369	1	Nut, Hex Jam, .375 Coarse THD.

HARDWARE USED:

H14	2-00-00219	2	Screw, 1/4-20 x .500 HHC
H26	2-00-00641	3	Nut, 1/4-20 Insert Fiber
H27	2-00-03702	3	Washer, .625 x .281 x .063
H36	2-00-00196	2	Carriage Bolt, 5/16-18 x 1.000
H37	2-00-00207	1	Screw, 5/16-18 x 1.250 HHC
H43	2-00-00409	1	Flat Washer, .687 x .344 x .062
H46	2-00-00644	4	Nut, 5/16-18, Insert Fiber
H49	2-00-00209	1	Screw, 3/8-16 x 1.250 HHC
H72	2-00-00518	2	Lock Washer, Helical Spring
H95	2-00-03382	2	Spring Washer, .875 x .500 x .015
H144	2-00-02303	1	Lock Washer, Int.
H172	2-00-04986	3	Screw, 1/4-20 x 4.500
H209	2-00-00586	2	Nut, Hex Jam 5/16 - 18 x .500 x .187

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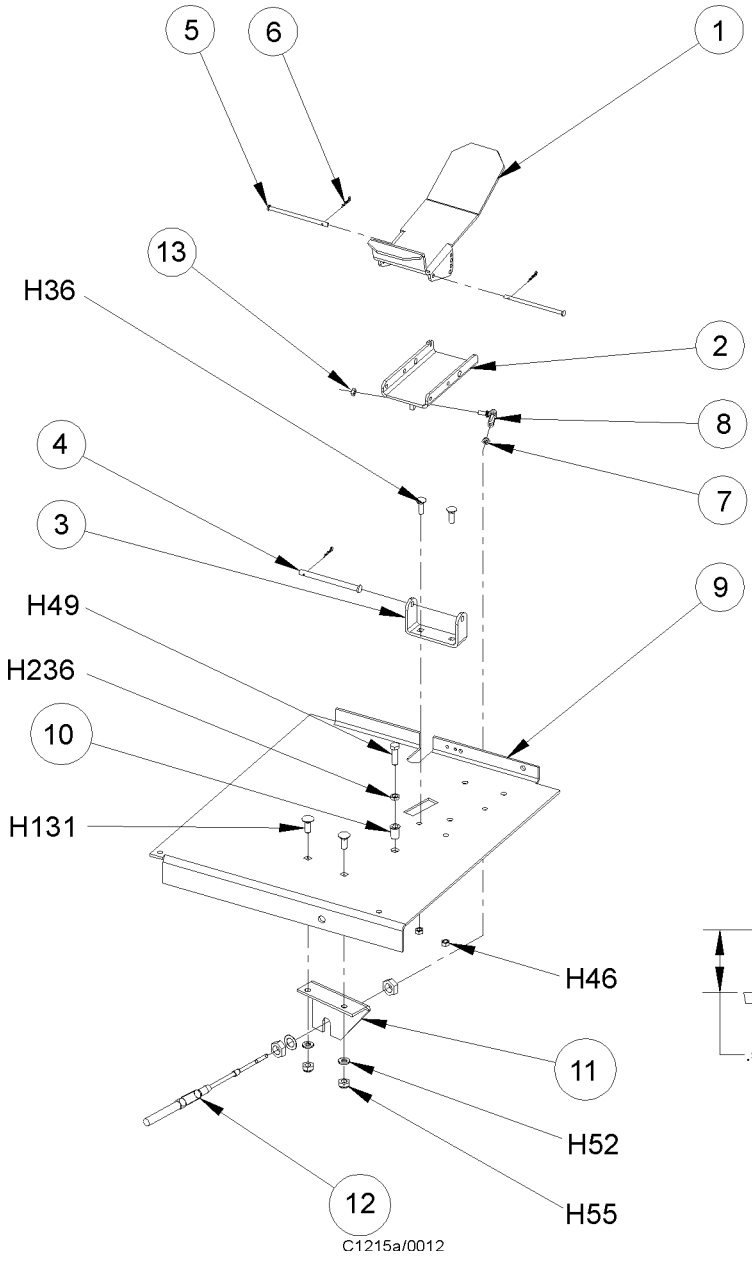

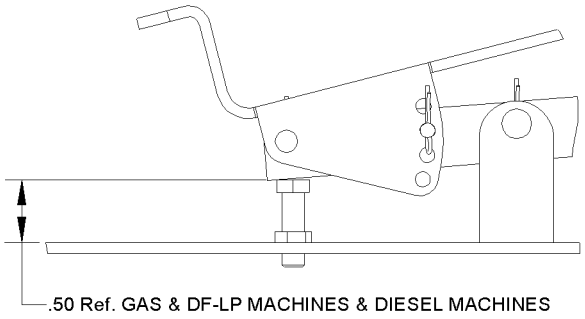

REVERSE SPEED STOP SET-UP

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Item	Ref. No.	Qty	Description
1	8-55-00034	1	Adj. Foot Pedal
2	8-55-00036	1	Pedal Base
3	8-08-00782	1	Bracket
4	2-00-05246	1	Pin
5	2-00-05247	2	Pin
6	2-00-05249	3	Cotter Pin
7	2-95-01999	1	Hex Nut
8	7-25-02050	1	Rod End
9	8-58-05782	1	Floor Plate
10	2-00-05347	1	3/8-16 Thread Insert
11	8-08-00912	1	Bracket - Forward/Reverse Control
12	7-16-00009	1	Accelerator Cable
13	2-00-00633	1	Nut, Fiber Insert 1/4-28

HARDWARE USED:

H36	2-00-00196	2	Carriage Bolt. 5/16-18 x 1.000
H46	2-00-00644	2	Nut, 5/16-18, Insert Fiber
H49	2-00-00209	1	Screw, 3/8-16 x 1.250 HHC
H52	2-00-00402	2	Flat Washer, .750 x .390 x .094
H55	2-95-04182	2	Nut, Hex, Stop, 3/8-16
H131	2-00-03855	2	Carriage Bolt, 3/8-16 x 1.000
H236	2-00-02369	1	Nut, Hex Jam, .38-16

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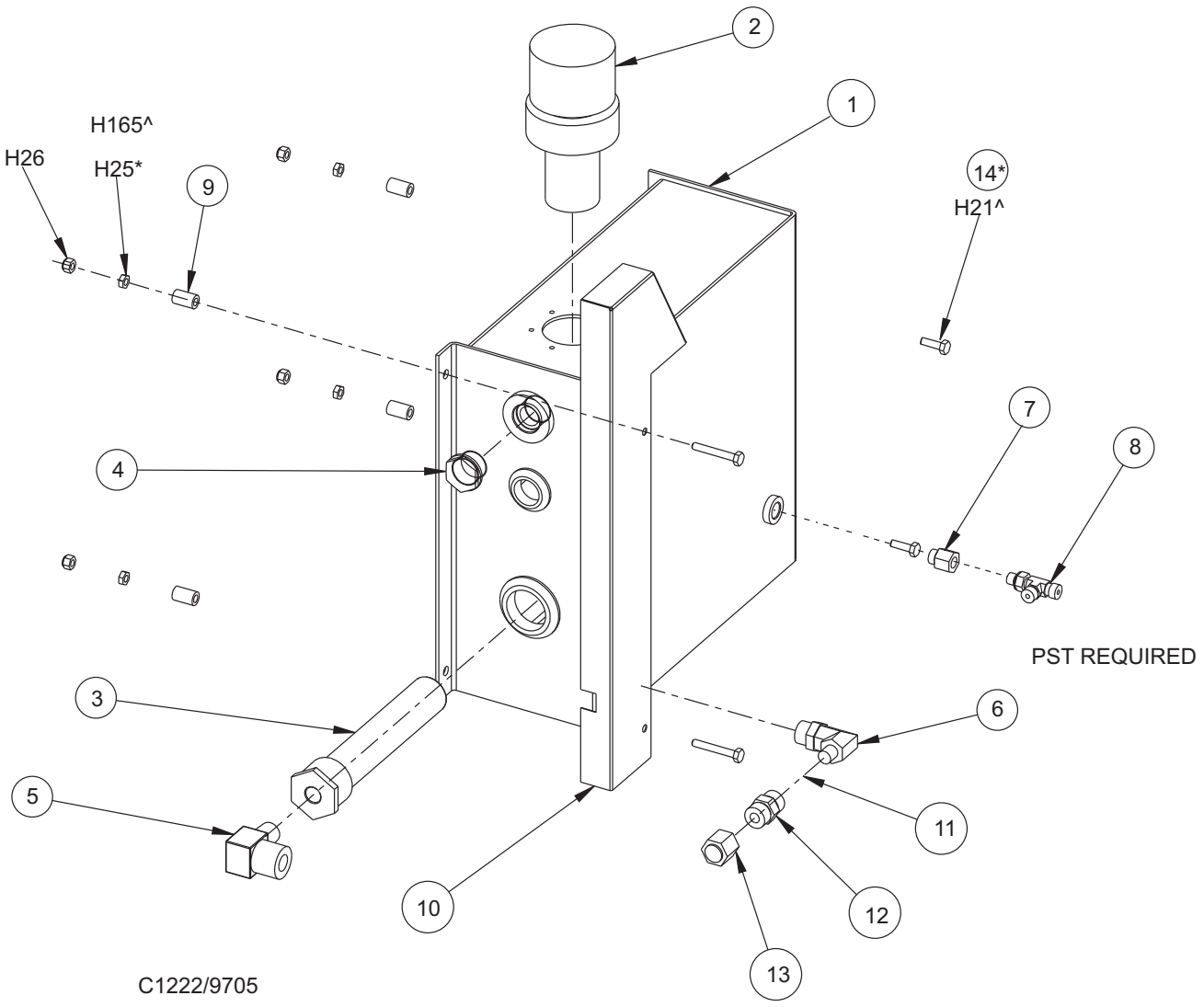

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Item	Ref. No.	Qty	Description
1	8-83-04040	1	Reservoir
2	8-11-00026	1	Filler Cap Assembly
3	8-24-04115	1	Strainer
4	8-48-05033	1	Sight Gauge
5^	2-00-03952	1	Fitting, 90° Straight Elbow
5*	2-00-05074	1	Fitting, Elbow
6	2-00-05204	1	Fitting, cStraight Elbow
7^	2-00-04917	1	Fitting, Reducer Tee
7*	2-00-04926	1	Fitting, Elbow
8^	2-00-04927	1	Fitting, Tee
9*	8-75-01199	4	Spacer
10*	8-20-06042	1	Duct, Reservoir Air
11	8-33-02193	Ref.	Hose
12	2-00-04987	1	Nipple
13	2-00-04957	1	Cap
14	2-00-01490	4	Screw, .25 - 20 x .875 HHC STL

^ Used on Gas, Diesel, and LP
* Used on Battery

HARDWARE USED:

H21	2-00-01769	4	Screw, ¼ - 20 x 1.750 HHC
H25	2-00-00594	4	Nut, Hex ¼ - 20 x .437 x .218
H26	2-00-00641	4	Nut, 1/4-20 Insert Fiber
H165	2-00-00589	4	Nut, Hex Jam, .25 - 20

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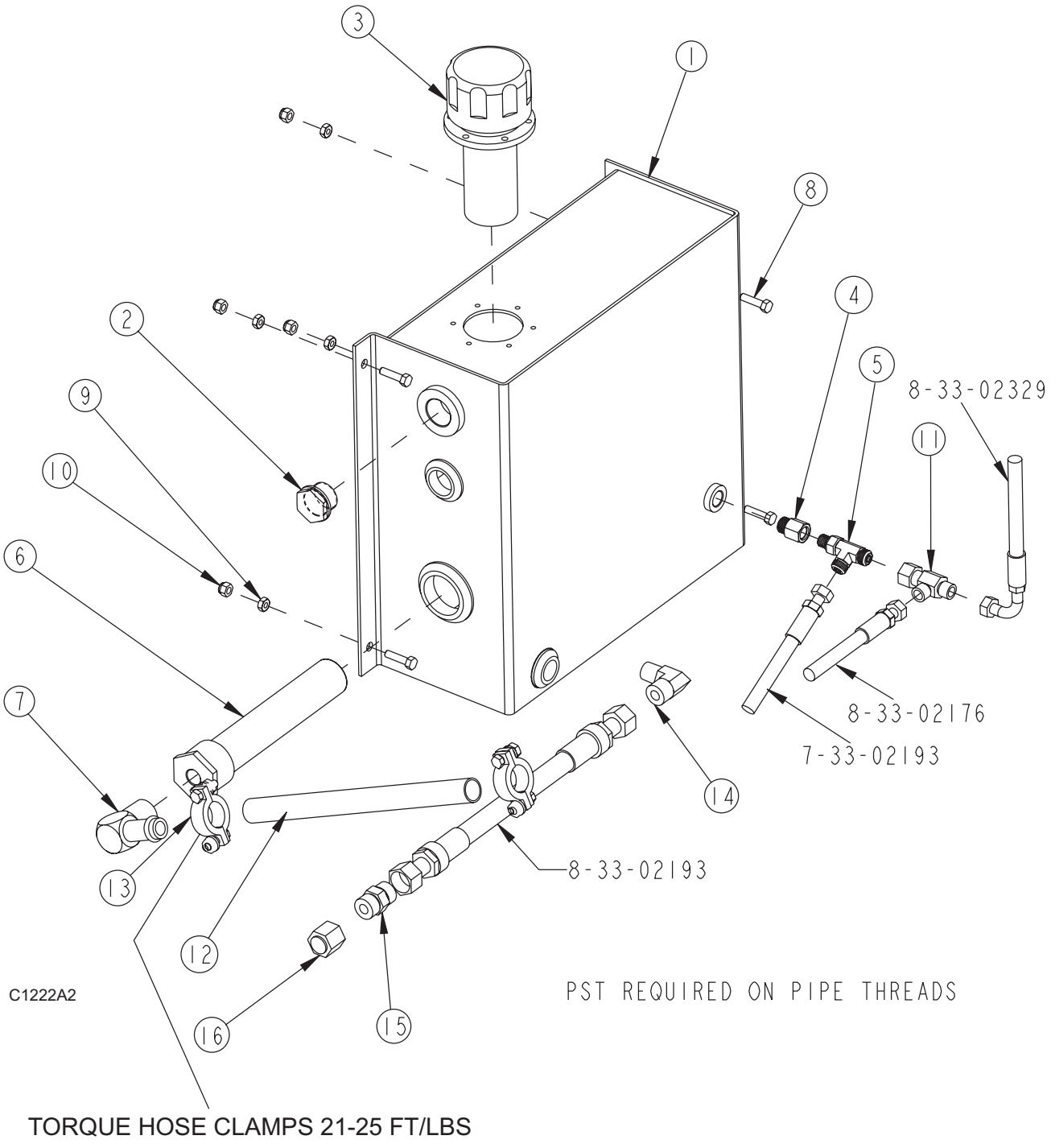

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Item	Ref. No.	Qty	Description
1	8-83-04040	1	Reservoir
2	8-48-05033	1	Sight Gauge
3	8-11-00026	1	Filter Cap Assembly
4	2-00-04917	1	Fitting, -6 ORB - -4 ORB Reducer
5	2-00-04927	1	Fitting Tee
6	8-24-04115	1	Strainer
7	7-25-02038	1	Fitting, 3/4 NPT x 3/4 Hose Barb 90º
8	2-00-00205	4	Bolt, 1/4-20 Fin. Hex Head
9	2-00-00594	4	Nut, Hex 1/4-20 x .437 x .218
10	2-00-00641	4	Nut, 1/4-20 Insert Fiber
11	2-00-05162	1	Fitting, 4 ORS Run Tee
12	7-33-02700	1	Hose, Suction
13	2-00-06536	2	Clamp, 3/4” Hose
14	2-00-05204	1	Adapter, 13/16-16 x 1/2-14 NPTF 90°
15	2-00-04987	1	Fitting, -08 ORFS Nipple
16	2-00-04957	1	Fitting, 8 ORS Cap

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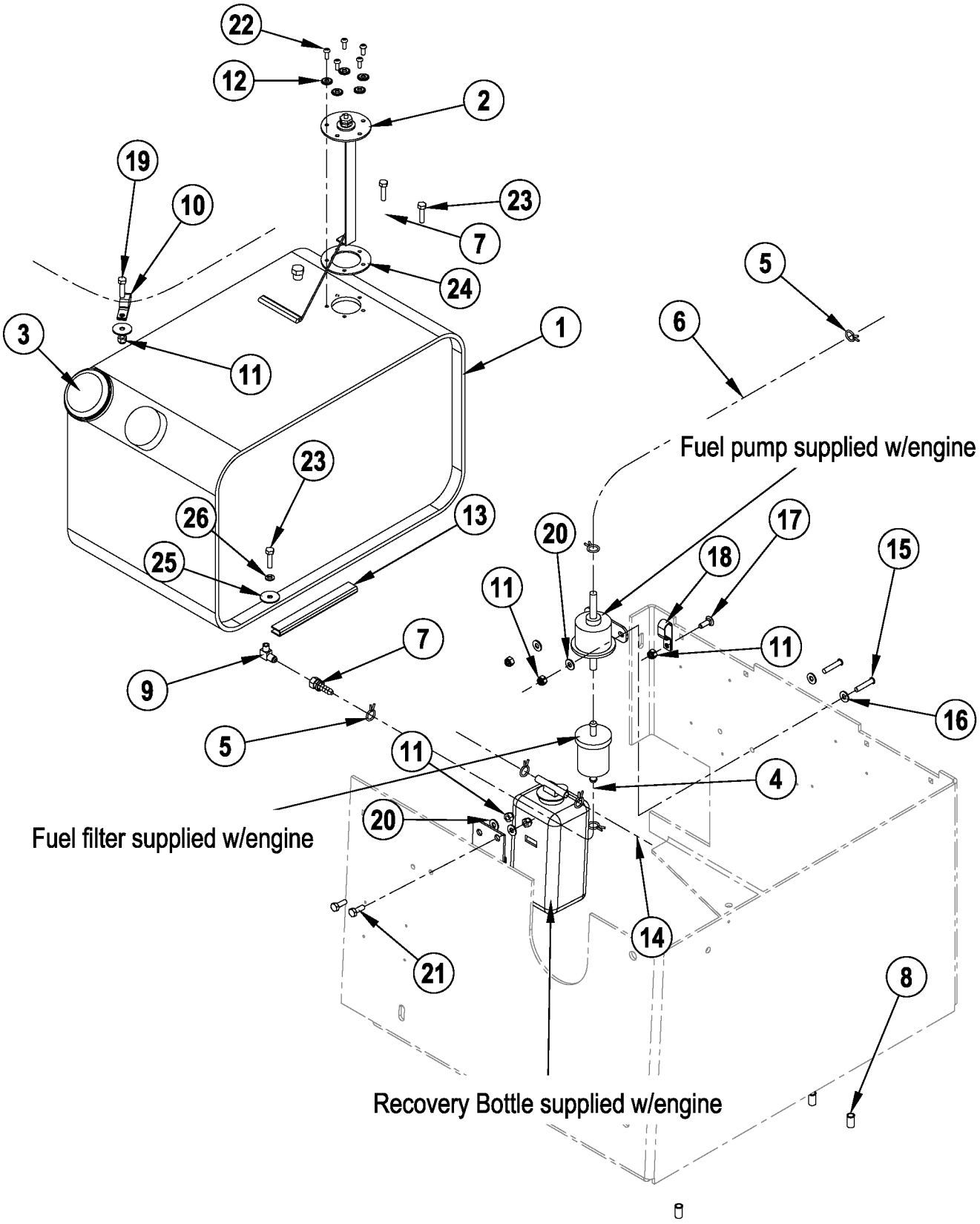

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Item	Ref. No.	Qty	Description
1	8-83-04029	1	Tank - Gas
2	8-26-04003	1	Float/Sender
3	7-11-00029	1	Cap
4	8-33-02341	1	Hose
5	2-00-04850	5	Hose Clamp
6	8-33-02268	1	Hose
7	2-00-04618	1	Fitting
8	2-00-05261	4	Thd Insert ¼-20
9	8-56-05021	1	Fitting
10	2-00-04602	1	Clamp
11	2-00-00641	6	Nut-Ins-Fibre .25-20 ZN PL
12	2-00-04590	5	Washer Stainless Steel
13	7-21-04031	1	Edging-Brush Drive Support
14	7-33-02337	1	Hose-64.5 Fuel Line
15	2-00-00051	2	Scr, .25-20 x .75
16	2-00-00501	2	Lk Wash Int Tooth ZN
17	2-00-03575	1	Bolt Carr. .25-20 x .75 GR5 ZN
18	2-00-04603	1	Clamp(Double) 1/2 OD
19	2-00-00222	1	Screw-HHM .25-20 x 1.25 GR5 ZN
20	2-00-03702	4	Wshr-Fl. .625x.281x.063 Stl.Zn
21	2-00-00221	2	Scw-Hhc .25-20 X .75 Gr8 Zn
22	2-00-02848	5	Screw-Rhm #10-32 X .50 Zn
23	2-00-00205	3	Bolt Hex Tap .25-20x1.0 Gr5
24	7-29-00348	1	Gasket, Sending Unit
25	2-00-01676	2	Wshr-Flat 1.063x.266x.063 Stl.
26	2-00-00518	4	Lk Wash 1/4 Med. Section Zn

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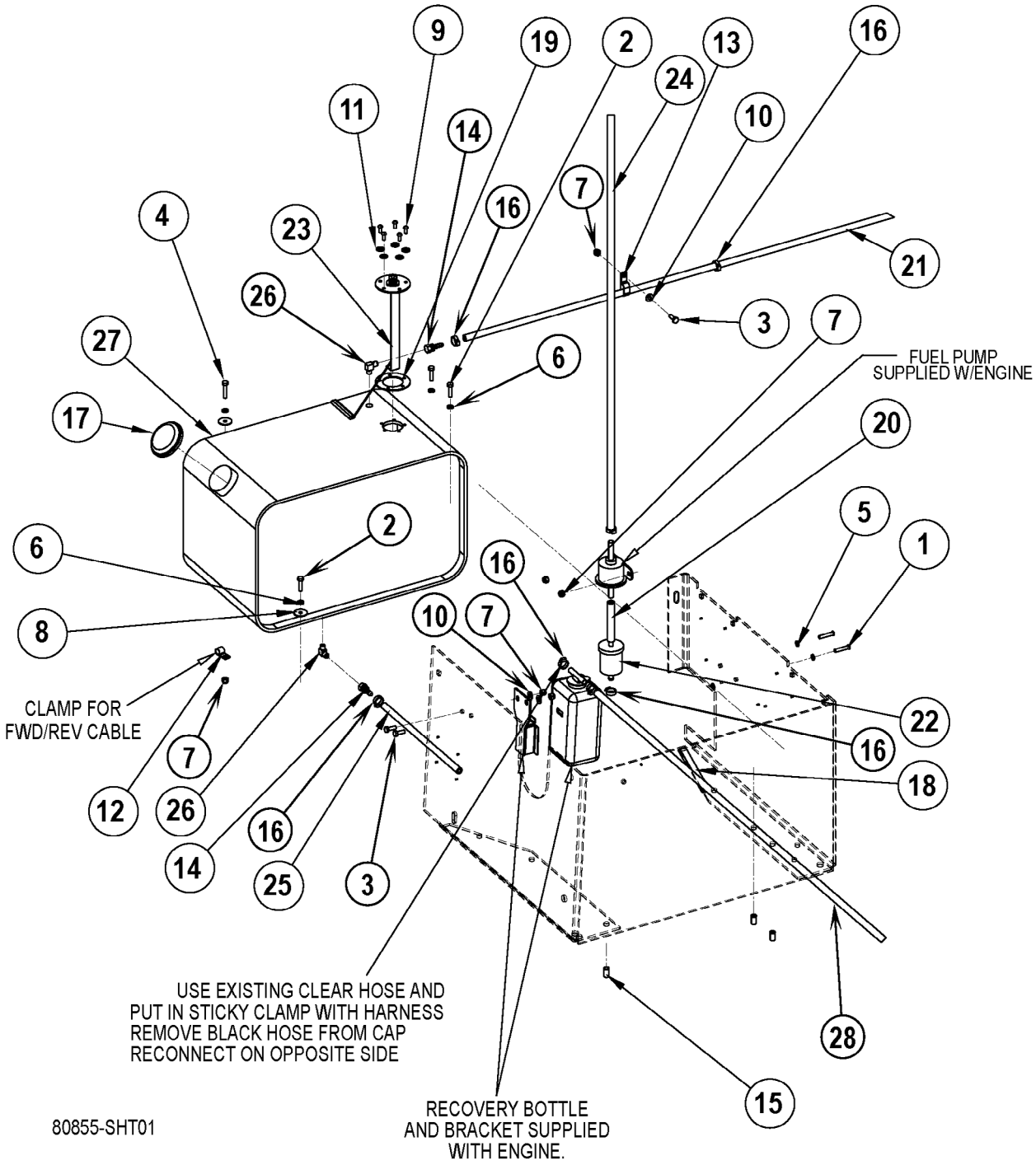

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Item	Ref. No.	Qty	Description
1	2-00-00060	2	Screw Rhm .25-20 X 1.25 Zn
2	2-00-00205	3	Bolt-Hex Head, Finished, 1/4-20
3	2-00-00221	3	Bolt-Hex Head, Finished, 1/4-20x3/4 Lg
4	2-00-00222	1	1/4-20 X 1.25 Lg Hex Head Screw
5	2-00-00501	3	Washer .25 Id X .44 Od X .046
6	2-00-00518	4	Washer, Lock, 1/4", Helical Spring
7	2-00-00641	6	Nut, Fiber Insert 1/4-20
8	2-00-01676	2	Wshr-Flat, 1.063x.266x.063 Stl.
9	2-00-02848	5	Screw - 10-32 X .50 Rhm
10	2-00-03702	3	Washer, .625 X .281 X .063
11	2-00-04590	5	Washer, Sealing
12	2-00-04602	1	Clamp
13	2-00-04603	1	Clamp-Hose (Double) 1/2 O.D.
14	2-00-04618	2	Fitting
15	2-00-05261	3	Nutsert, 1/4-20
16	2-00-05363	7	Hose Clamp
17	7-11-00029	1	Cap
18	7-21-04022	1	Edging-Broom Chamber Cover
19	7-29-00348	1	Gasket, Sending Unit
20	7-33-02263	1	Hose
21	7-33-02304	1	Hose
22	8-24-04129	1	Fuel, Filter (Service)
23	8-26-04003	1	Float/Sender
24	8-33-02268	1	Hose
25	8-33-02341	1	Hose
26	8-56-05021	2	Fitting
27	8-83-04029	1	Tank, Fuel
28	7-33-02337	1	Hose-64.5 Fuel Line

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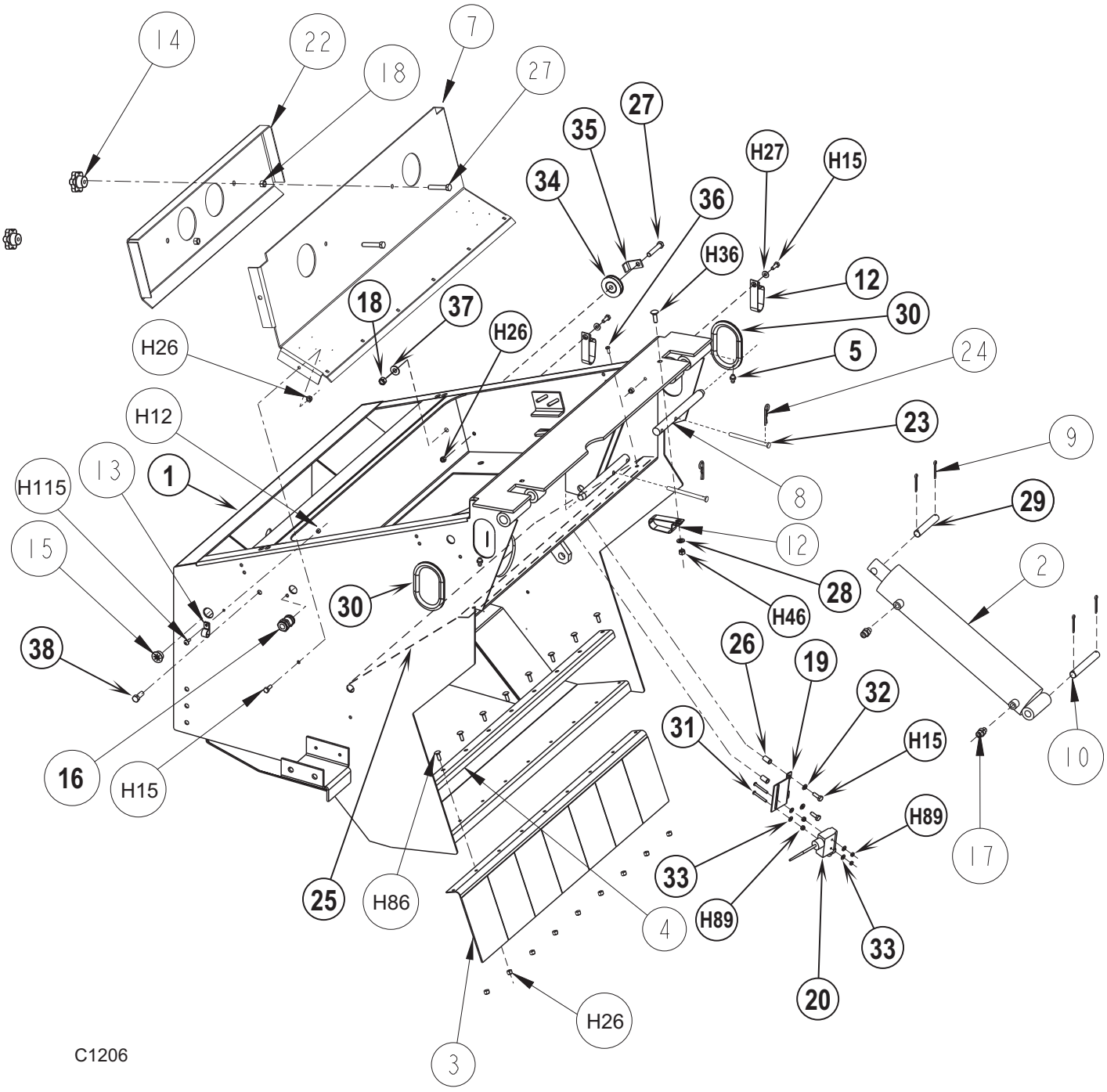

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Item	Ref. No.	Qty	Description
1	8-32-06104	1	Hopper
2	8-17-05022	1	Lift Cylinder
3	8-25-08209	1	Hopper Flap
4	8-13-07138	1	Clamp, Hopper Flap
5	2-00-00566	2	Grease Zerk
7	8-05-01003	1	Baffle, Hopper Air
8	8-55-08127	2	Pin, Hopper Pivot
9	2-00-00776	4	Cotter Pin
10	8-55-08112	1	Pin
12	2-00-05253	3	Clamp
13	2-00-04210	2	Clamp
14	25201A	2	Knob
15	8-09-01082	1	Bushing, Star
16	8-09-01083	2	Bushing, Liquid Tight
17	2-00-04895	2	Adapter, 7/16 ORB - 9/16 ORFS
18	2-95-04182	4	Nut, Fibre
19	8-08-00845	1	Bracket
20	8-82-00058	1	Switch
22	8-05-01002	1	Baffle, Hopper Air
23	2-00-05319	2	Pin, Clevis
24	2-00-05249	2	Hair Pin Cotter
25	8-52-00190	1	Panel, Hopper Seal
26	2-00-05261	2	Threaded Insert, 1/4-20
27	2-00-00216	3	Bolt, Hex Hd, 3/8-16 x 2”
28	2-00-00409	1	Flat Washer, .687 x .344 x .062
29	56109164	1	Pin
30	56109165	2	Edging
31	2-00-00090	2	Screw, #8-32 x 1.50 LG, RHM
32	2-00-00518	2	Washer, Lock, 1/4”, Helical Spring
33	2-00-00466	4	Flat Washer - .625 x .203 x .031
34	7-60-00160	1	Pulley-Cable
35	7-13-07130	1	Clip, Cable
36	2-00-03940	2	Screw-T/C Hh #10-24 X .50 Lg
37	2-00-00410	1	Flat Washer - .875 X .375 X .060
38	2-00-00233	1	Bolt-Hex Head, Finished, 3/8-16 X 1.00

HARDWARE USED:

H12	2-00-01246	2	Nut, Hex Fiber Insert #10-24
H15	2-00-00221	4	Screw, 1/4-20 x .750 HHC
H26	2-00-00641	13	Nut, 1/4-20 Insert Fiber
H27	2-00-03702	2	Washer, .625 x .281 x .063
H36	2-00-00196	1	Carriage Bolt, 5/16-18 x 1.000
H46	2-00-00644	1	Nut, 5/16-18, Fiber Insert
H86	2-00-03575	9	Carriage Bolt, 1/4-20 x .750
H89	2-00-01372	4	Nut, #8-32 Steel Fiber Insert
H115	2-00-03062	2	Screw, #10-24 x 5/8 LG

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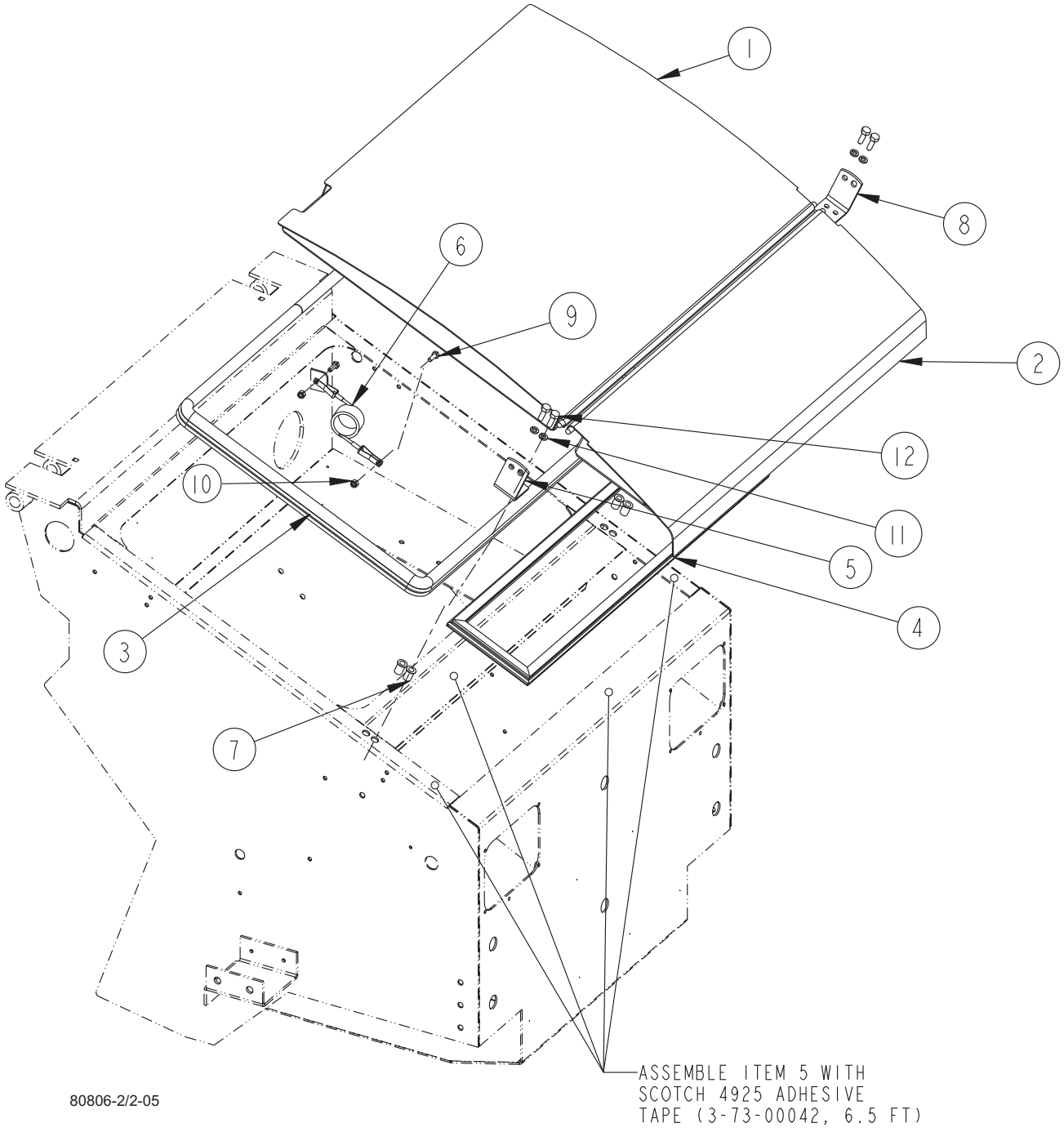

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Item	Ref. No.	Qty	Description
1	8-16-07373	1	Cover, Filter (welded)
2	8-16-07374	1	Cover, Debris (welded)
3	8-29-00290	1	Gasket
4	8-29-00254	1	Gasket
5	8-08-00847	1	Bracket, RH Cover Hinge
6	8-10-00027	1	Cable
7	2-00-05330	4	Insert, 5/16-18 Threaded
8	8-08-00875	1	Bracket, LH Cover Hinge
9	2-00-00221	2	Screw, 1/4-20 x .625 HHC
10	2-00-00641	2	Nut 1/4-20 Fiber Insert
11	2-00-00530	4	Lock Washer, 5/16 HS Med.
12	2-00-00206	4	Screw, 5/16-18 x 1.0 HHC

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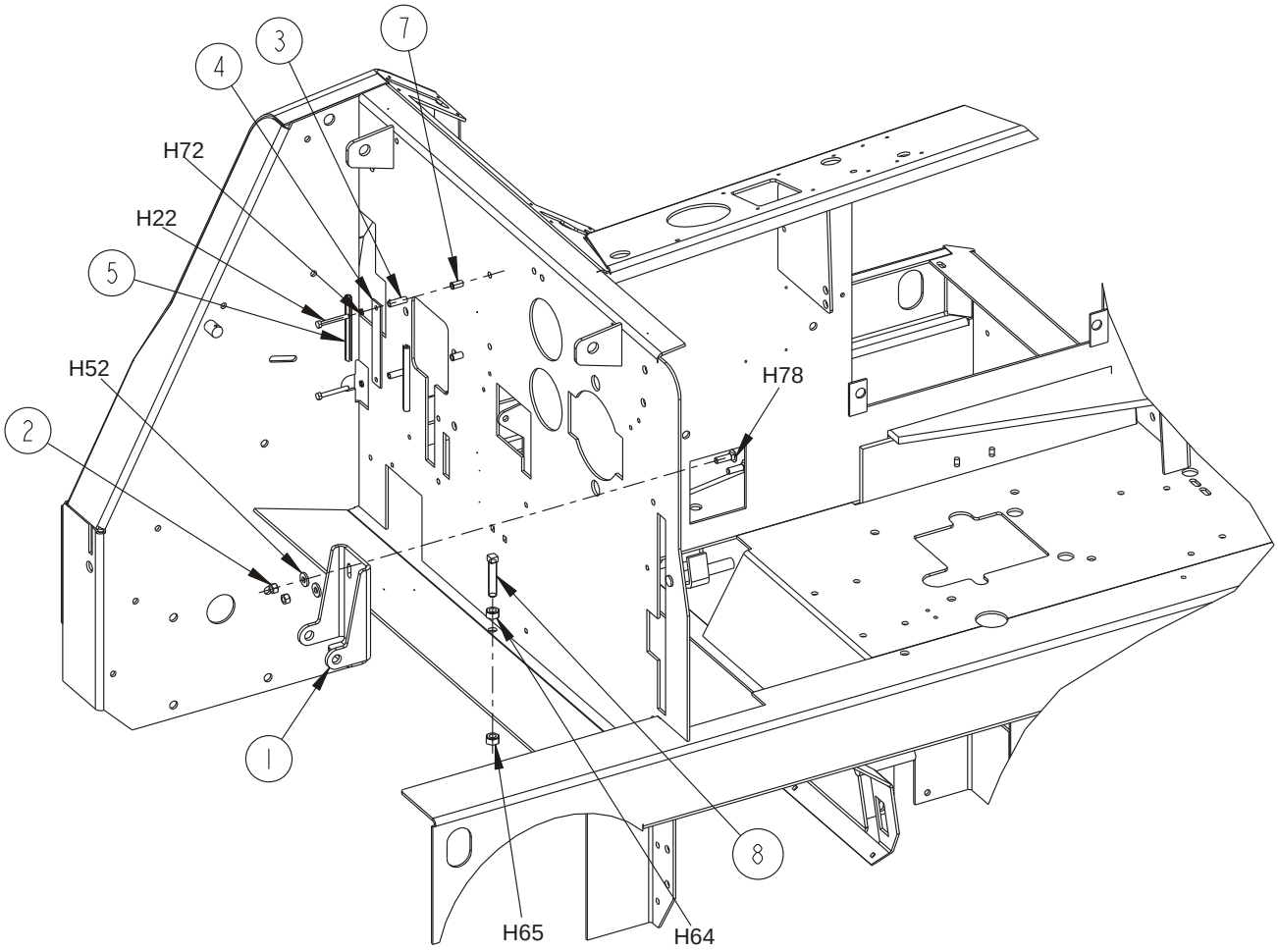

Item	Ref. No.	Qty	Description
1	8-08-00832	1	Bracket, Lift Cylinder Mounting
2	2-95-04182	2	Fiber Nut
3	7-75-01063	2	Spacer
4	8-65-00024	1	Plate, Retainer Hyd. Hose
5	8-08-07045	2	Edging
7	2-00-05261	2	1/4 - 20 THD Insert
8	2-00-02981	1	Screw, SHCP .50 - 13 x 2.50 Zinc

HARDWARE USED:

H22	2-00-02589	2	Screw, 1/4 - 20 x 2.000HHC
H64	2-00-00596	1	Nut, Hex ½ -13 x .750 x .437
H65	2-00-04936	1	Nut ½ - 13 Fiber Lock
H72	2-00-00518	2	Lock Washer, Helical Spring
H78	2-00-05187	2	Carriage Bolt 3/8 - 16 x 1.250
H92	2-00-04801	2	Flat Washer, .875 x .375 x .125

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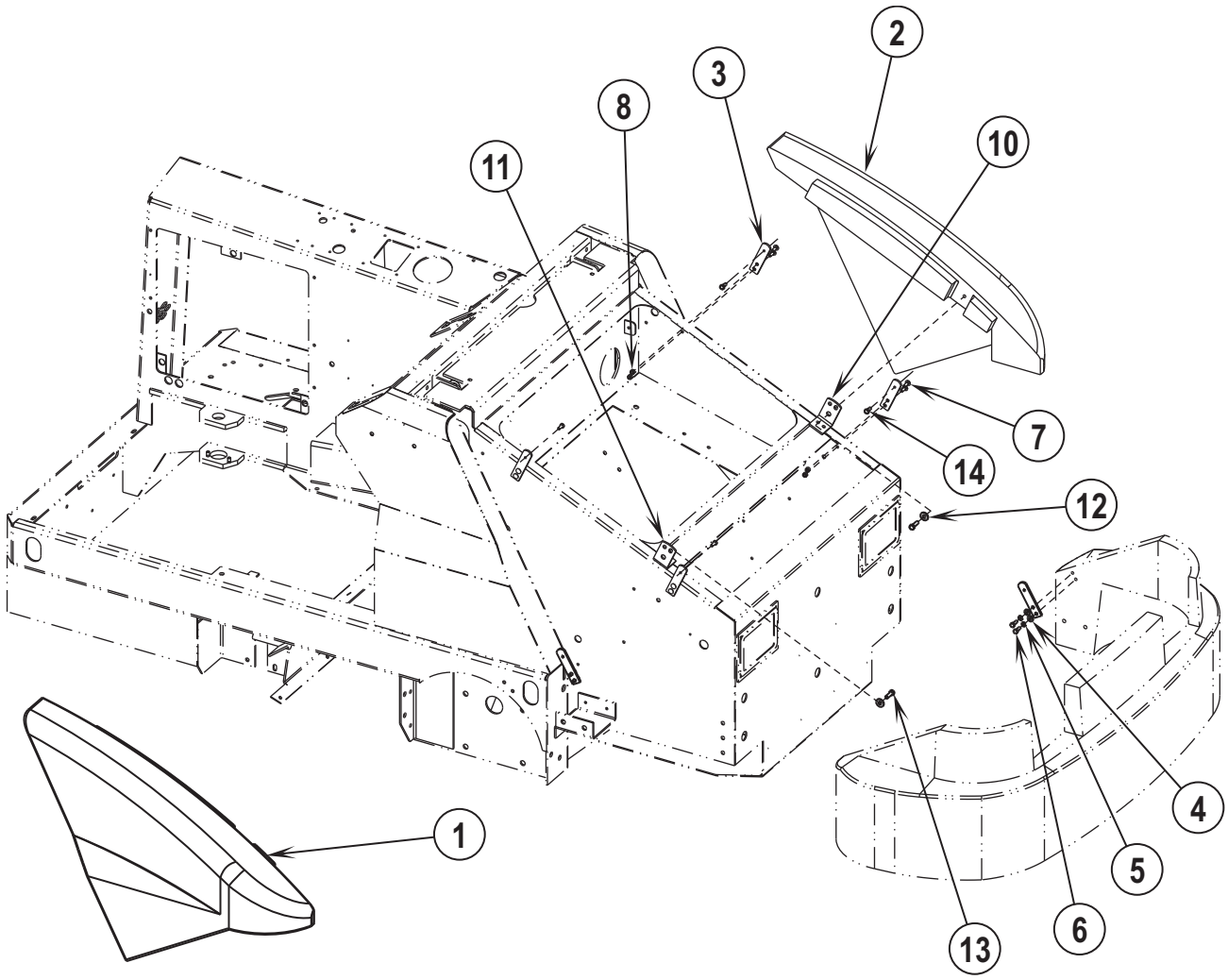

Item	Ref. No.	Qty	Description
1	8-16-07409	1	Cover, Side RH
2	8-16-07410	1	Cover, Side (LH)
3	8-45-05010	6	Lug, Cover Detent
4	2-00-03702	4	Washer, .625 x .281 x .063
5	2-00-00518	4	Washer, Lock, 1/4", Helical Spring
6	2-00-00221	4	Bolt-Hex Head, Finished, 1/4-20x3/4 LG
7	2-00-03575	8	Bolt-Carr, .25-20 X .75 Gr5 Zn
8	2-00-00641	8	Nut, Fiber Insert 1/4-20
*	2-00-05330	4	Threaded Insert- 5/16-18
10	8-08-00875	1	Bracket, Hinge (L.H.)
11	8-08-00847	1	Bracket, Hinge (R.H.)
12	56002220	2	Wsh, Flt Std 5/16
13	56002221	2	Scr, Hex 5/16-18 X 1.00
14	56009250	4	Scr, Hex Thd Form 1/4-20 X .62

* = Not Shown

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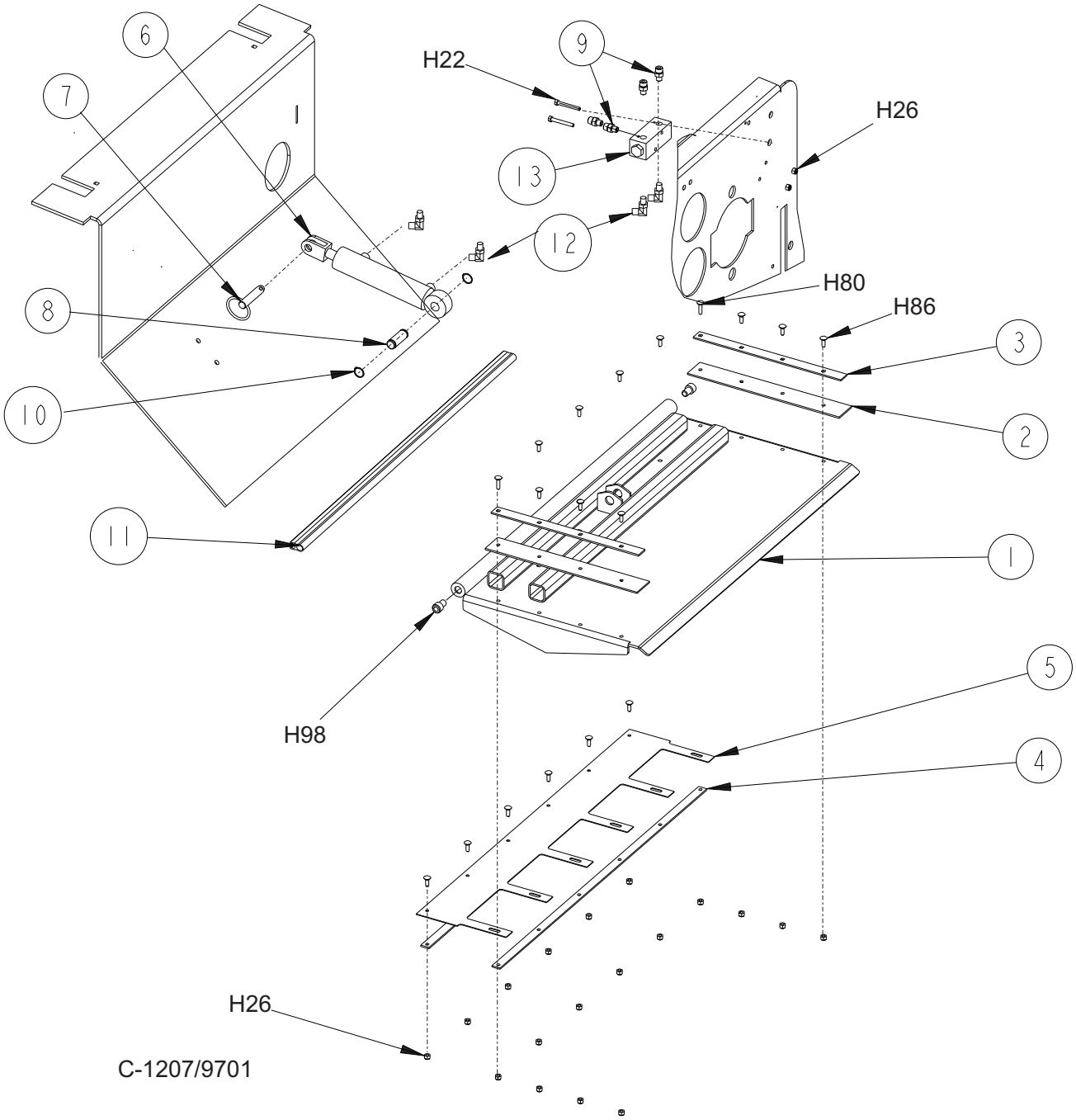

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Item	Ref. No.	Qty	Description
1	8-19-08066	1	Hopper Door
2	8-68-05087	2	Seal, Dump Door
3	8-13-07140	2	Clamp, Door Seal
4	8-13-07141	2	Clamp, Door Vent Flap
5	8-25-08210	1	Flap, Dppr Vemt
6	7-17-05011	1	Cylinder
7	7-55-08121	1	Pin, Door Cylinder
8	8-55-08123	1	Pin, 3/4 Dia.
9	2-00-04462	1	Fitting, Street Tee
10	2-00-00540	2	Retaining Ring, 3/4 Dia.
11	8-29-00244	1	Gasket, Dump Door
12	2-00-04892	1	Fitting
13	8-88-00064	1	Valve

HARDWARE USED:

H22	2-00-02589	2	Screw, 1/4-20 x 2.000 HHC
H26	2-00-00641	20	Nut, 1/4-20 Insert Fiber
H80	2-00-02196	18	Carriage Bolt, 1/4-20 x 1.000 RHM
H86	2-00-03575	1	Carriage Bolt, 1/4-20 x .750
H98	2-00-05277		Screw, 1/2-13 x .750 HSHC

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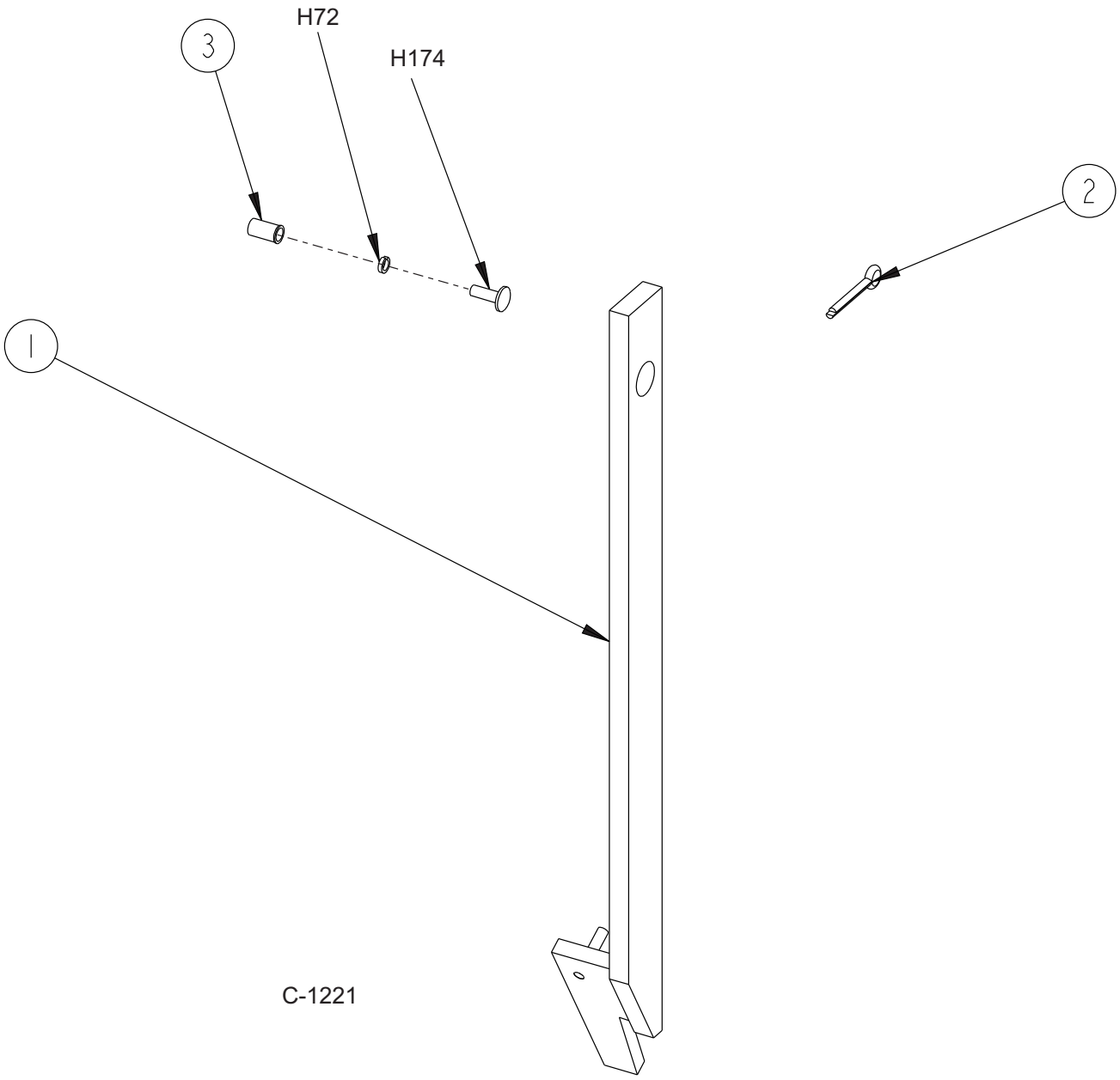

Item	Ref. No.	Qty	Description
1	8-81-00179	1	Safety Arm Weld
2	2-00-02436	1	Cotter Pin
3	2-00-05261	1	Threaded Insert

HARDWARE USED:

H174	2-00-00183	1	Screw, 1/4-20 x .750 THM

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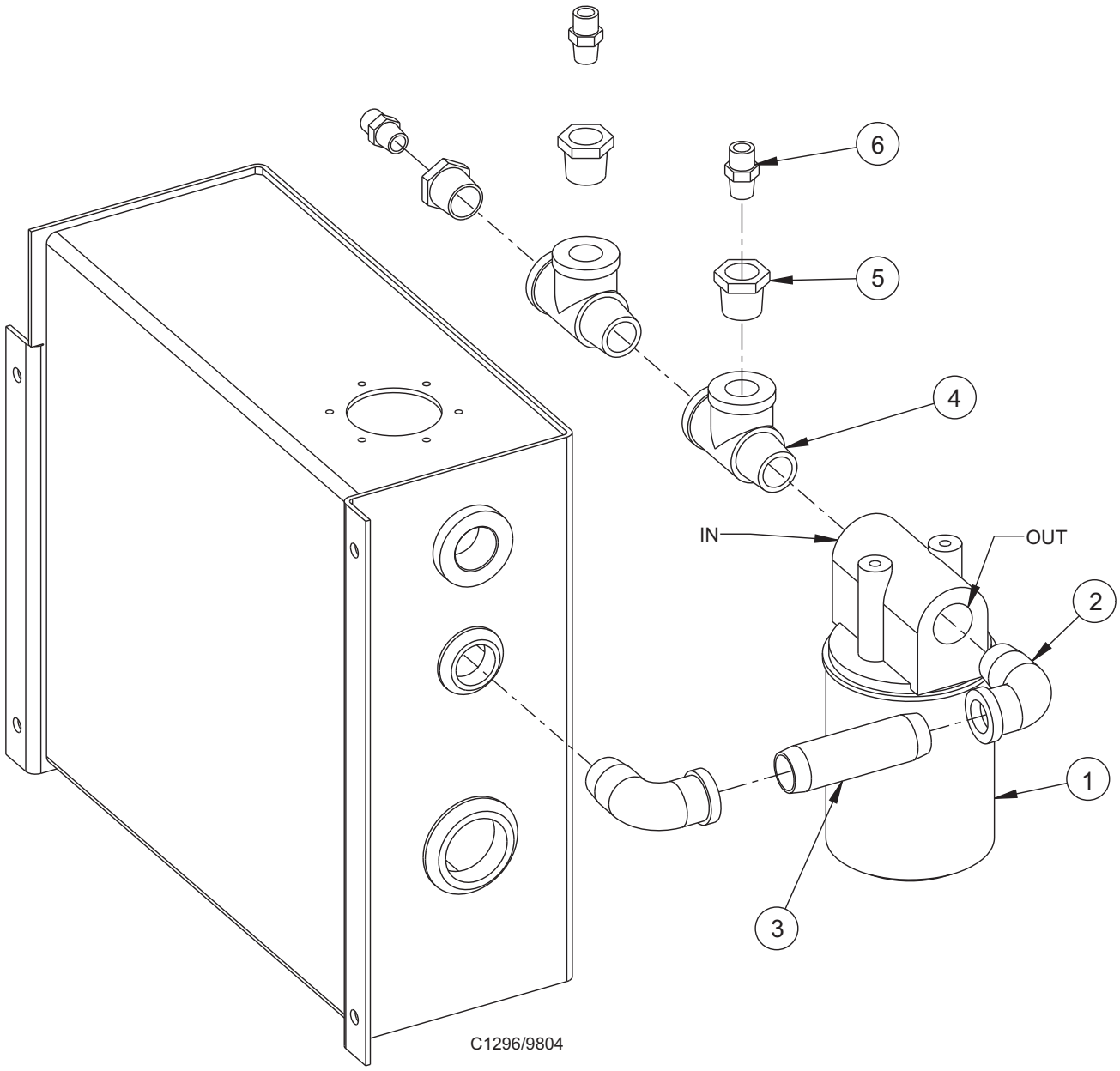

Item	Ref. No.	Qty	Description
1	7-24-04013	1	Hydraulic Filter
	7-24-04014	A/R	Element ONLY (for 7-24-04013)
2	2-00-03952	2	Elbow, Street 90° 3/4 NPT
3	2-00-03890	1	Nipple, Pipe 3/4 NPT x 3.5
4	2-00-04487	2	Fitting, Street Tee
5	2-00-04474	3	Fitting Reducer
6	2-00-05203	3	Fitting
7	2-00-03891	1	3/4 NPT x 6.00 Pipe Nipple
8	2-00-03639	1	90° Elbow, 3/4 NPT
9	8-33-02202	Ref	Hose, Hyd ORS 8 0-90 20”
10	7-33-02201	Ref	Hose, Hyd ORS 8 Str x Jic 8ST

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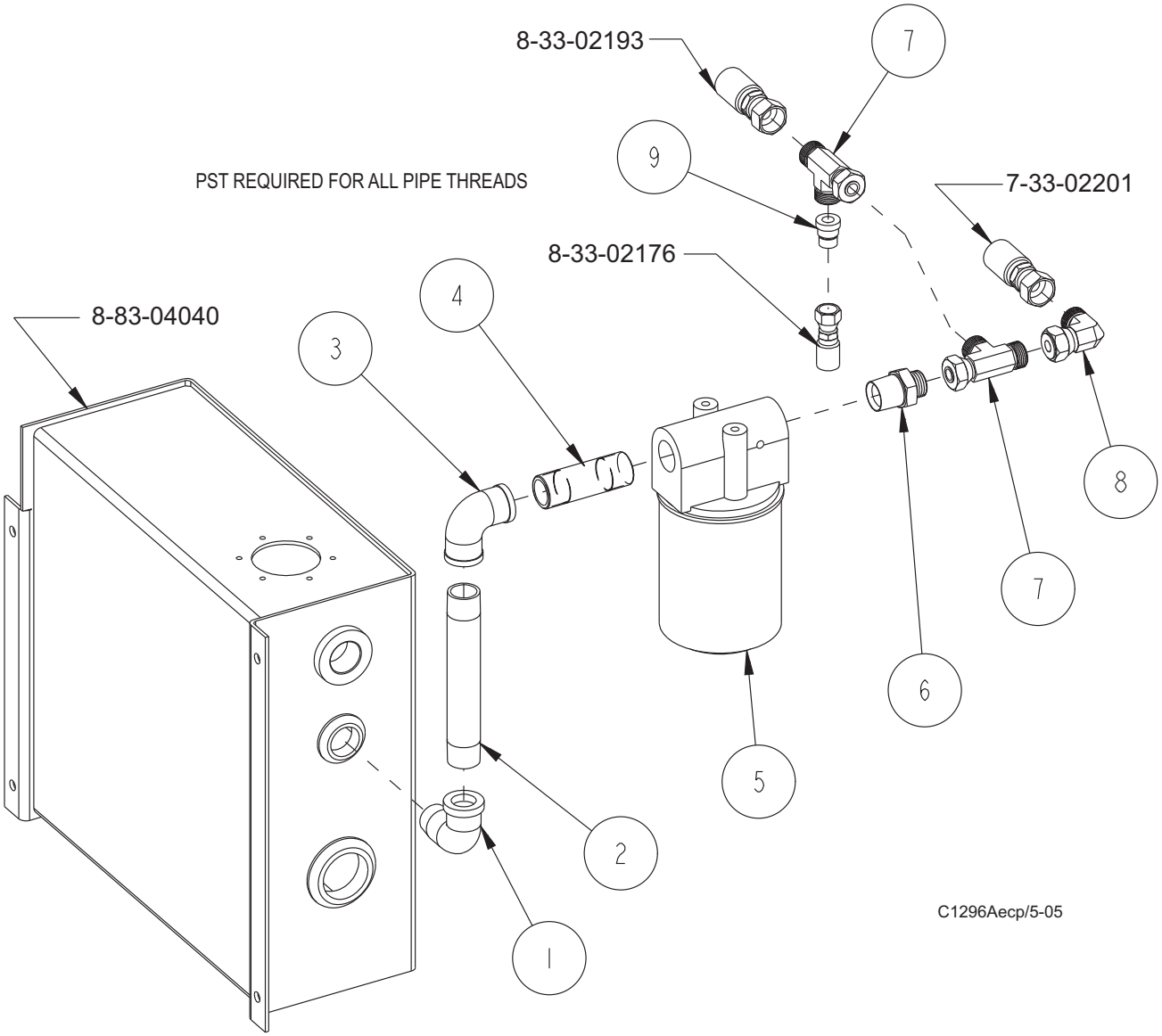

Item	Ref. No.	Qty	Description
1	2-00-03952	1	Elbow, Street 90° 3/4 NPT
2	2-00-03891	1	Nipple, 3/4 NPT x 6" Pipe
3	2-00-03639	1	90° Elbow, 3/4 NPT
4	2-95-04267	1	Nipple, 3/4 x 3" Pipe
5	7-24-04013	1	Hydraulic Filter
	7-24-04014	A/R	Element ONLY (for 7-24-04013)
6	2-00-06112	1	Fitting, -08 ORFS x 3/4 NPT (w/orifice)
7	2-00-04928	2	Fitting, -08 ORFS Run Tee
8	2-00-05046	1	Fitting, -08 ORFS 90° Street Elbow
9	2-00-04929	1	Fitting, -08 ORFS x -04 ORFS Reducer

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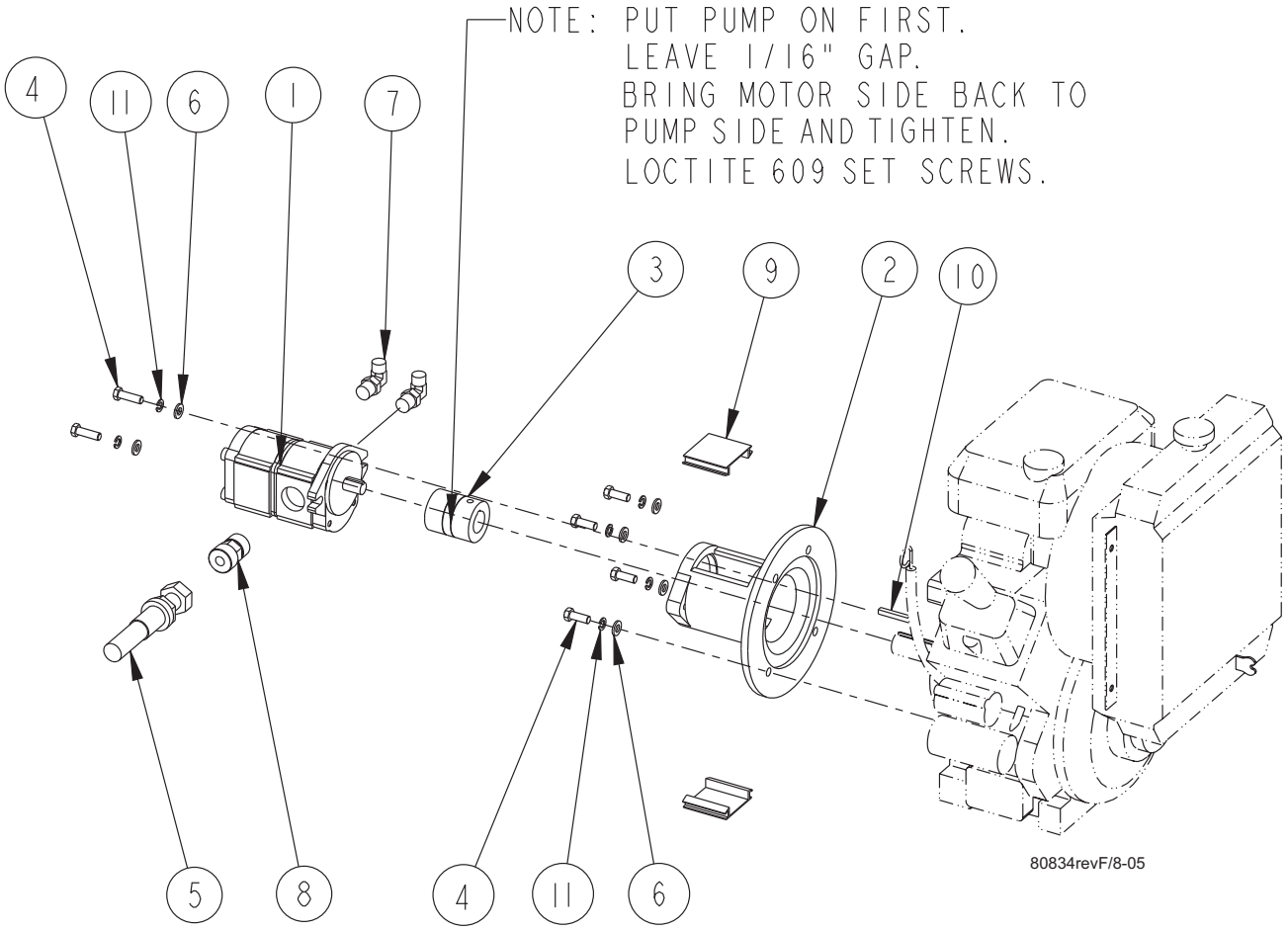

Item	Ref. No.	Qty	Description
1	8-60-05038	1	Pump
2	8-33-05129	1	Housing - Pump Housing
3	8-16-05030	1	Coupling
4	2-00-00209	6	Screw, 3/8 - 16 x 1.250 HHC
5	8-33-02408	1	Hose
6	2-00-00402	6	Flat Washer, .750 x .390 x .094
7	2-00-04921	2	Fitting - 90° Elbow
8	2-00-04971	1	Fitting
9	8-16-07321	2	Cover
10	2-00-03761	1	Key
11	2-00-02310	6	Lock Washer, Helical Spring 3/8 Med.

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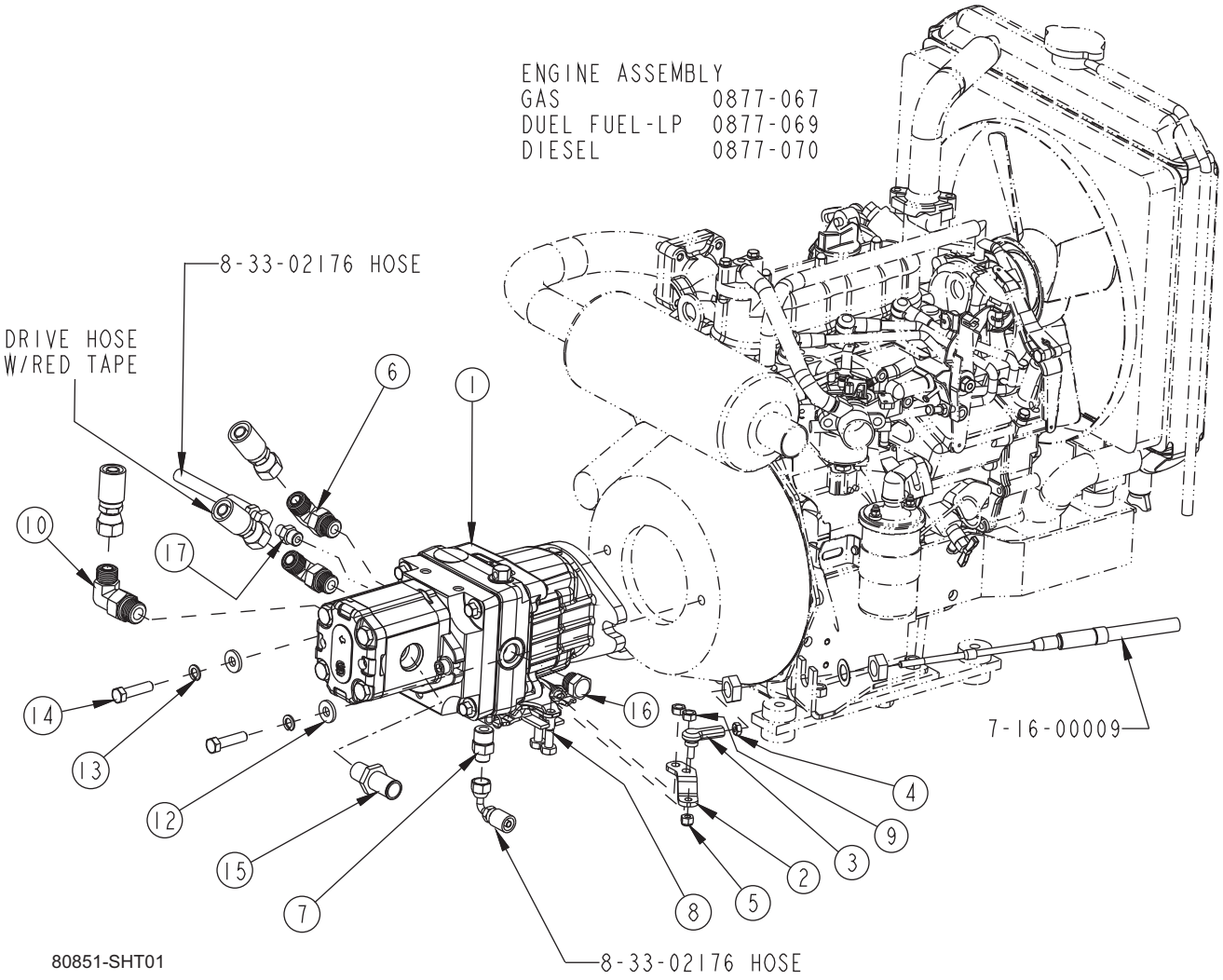

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Item	Ref. No.	Qty	Description
1	7-60-05058	1	Drive Pump, 1.28 Var. w/ .84 Gear & Rtn.
2	7-08-01263	1	Bracket, Rtn. Lever
3	7-25-02050	1	Rod End (Spherco)
4	2-95-01999	1	Nut, 1/4-28 Hex Jam
5	2-00-00633	1	Nut, 1/4-28 Fiber Insert
6	2-00-04885	2	Fitting, 90º Elbow (O-Ring)
7	2-00-05264	1	Fitting, #8 SAE, #4ORS Connector
8	2-00-00208	2	Screw, 5/16-18 x .75 HHC
9	2-00-00644	2	Nut, 5/16-18 Fiber Insert Hex
10	2-00-04921	1	Fitting, 10 SAE 90º - 8 ORS
11			Intentionally Omitted
12	2-00-04801	2	Flat Washer, .875 x .375 x .125
13	2-00-02310	2	Lock washer, Helical Spring 3/8 Med.
14	2-00-00234	2	Screw, 3/8-16 X 1.50 HHC
15	2-00-04752	1	Fitting, .50 NPT, .62 Hose
16	2-00-05196	1	Fitting, -8 ORB Hex Plug
17	2-00-04918	1	Fitting, Straight Connector **NOTE 1**

NOTE 1: The charge port on pump 7-60-05058 changed from 9/16-18 to 7/18-20. To replace the fitting item 17 on machines built before February 2008 order PN2-00-04895, for machines built after January 2008 order PN2-00-04918.

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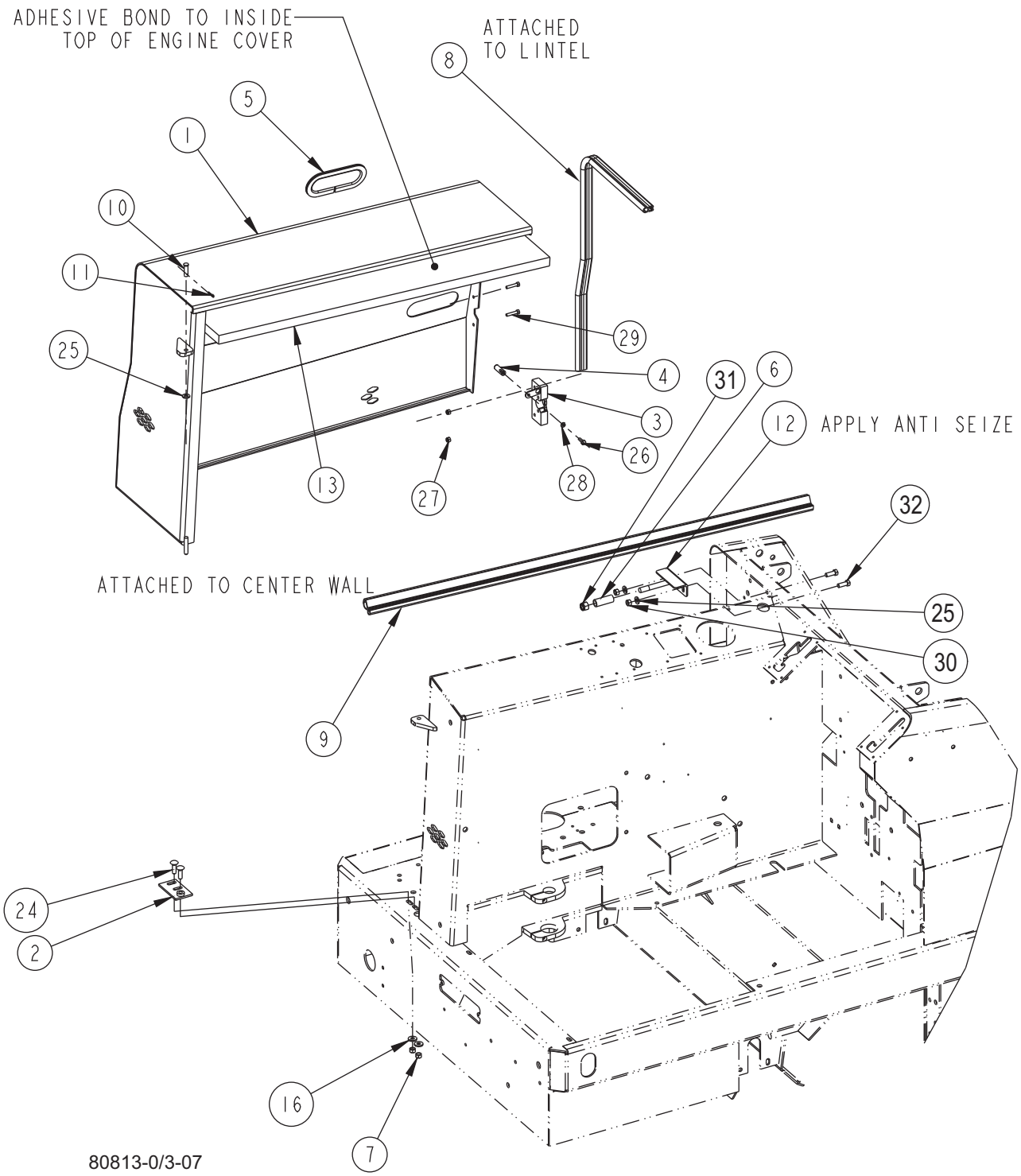

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Item	Ref. No.	Qty	Description
1	8-16-07367	1	Engine Cover
2	8-08-00844	1	Mounting Plate, Engine Cover
3	8-41-00051	1	Latch, Rotor
4	8-39-00014	1	Knob, Latch
5	7-21-03003	1	Edging
6	8-66-05012	1	Roller, Engine Cover Guide
7	2-95-04182	2	Nut, 3/8-16 Stop
8	8-29-00245	1	Gasket, Engine Cover
9	8-29-00246	1	Gasket, Engine Cover
10	2-00-05266	1	Clevis Pin
11	2-00-05249	1	Cotter Pin
12	8-08-00961	1	Bracket, Engine Cover Guide
13*	8-34-09030	1	Insulation, Cover
16	2-00-04801	2	Flat Washer, .875 x .375 x .125
24	2-00-05187	2	Carriage Bolt, 3/8-16 x 1.25
25	2-00-00402	3	Flat Washer, .750 x .391 x .093
26	2-00-00221	1	Screw, 1/4-20 x .75 HHC
27	2-00-00641	2	Nut, 1/4-20 Insert Fiber
28	2-00-00518	1	Lock Washer, Helical Spring
29	2-00-00222	2	Screw, 1/4-20 x 1.25 HHM
30	2-95-04182	2	Lock Nut, 3/8-16
31	2-00-04936	1	Insert, 1/2-13 Fibre
32	2-00-00233	2	Screw, .375-16 x 1.00

* Gas, LP, Diesel Only

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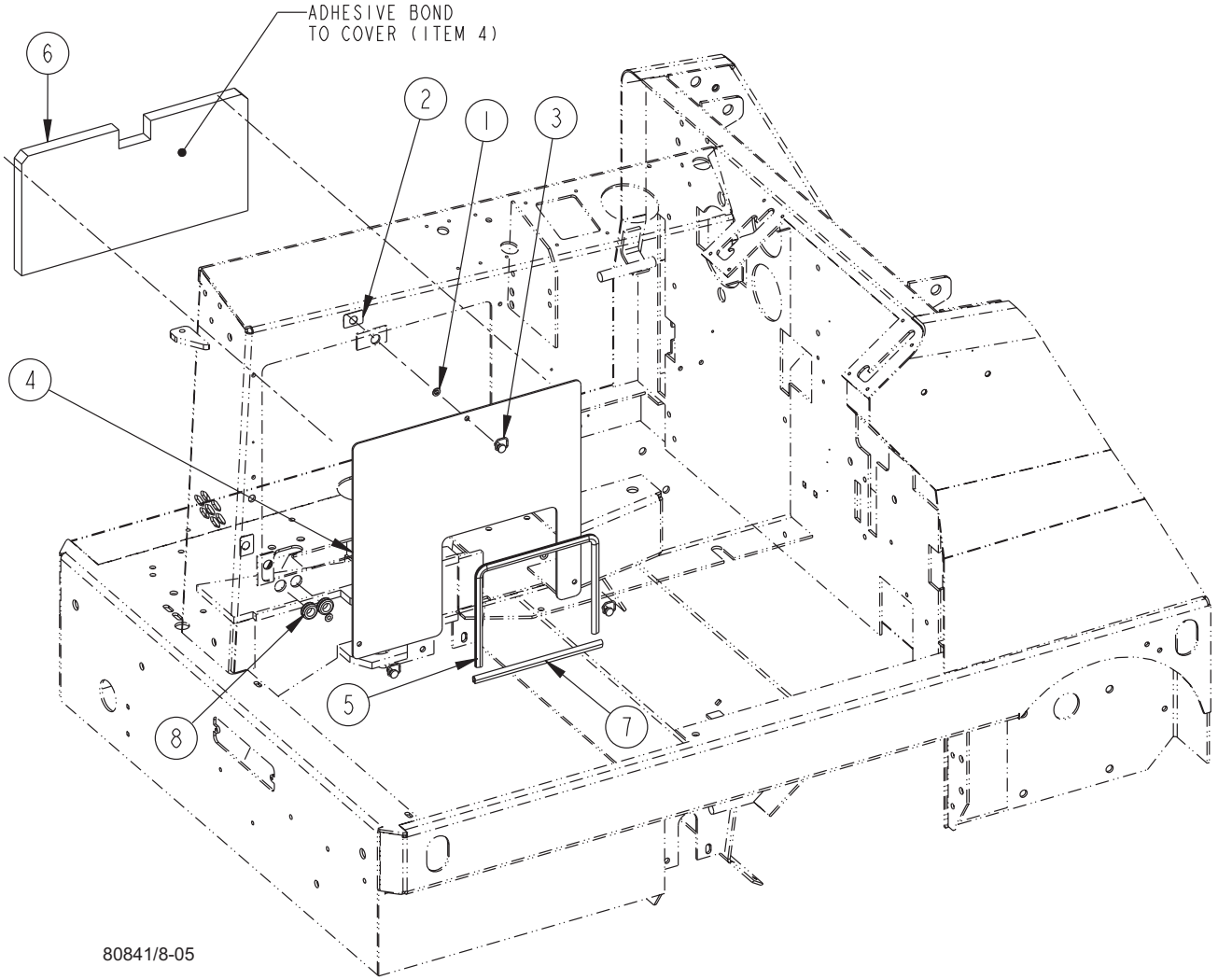

Packaging - Processing
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Item	Ref. No.	Qty	Description
1	7-23-03106	3	Washer, Screw-Captivated
2	7-23-03108	3	U Clip, Screw-Captivated
3	7-23-03113	3	Fastener, 1/4 Turn
4	8-16-07395	1	Cover, Power Panel
5	8-21-04057	1	Edging
6*	8-34-09035	1	Insulation, Center Wall
7	7-21-04044	1	Edging
8	2-00-03878	2	Grommet

*Gas, LP, Diesel only

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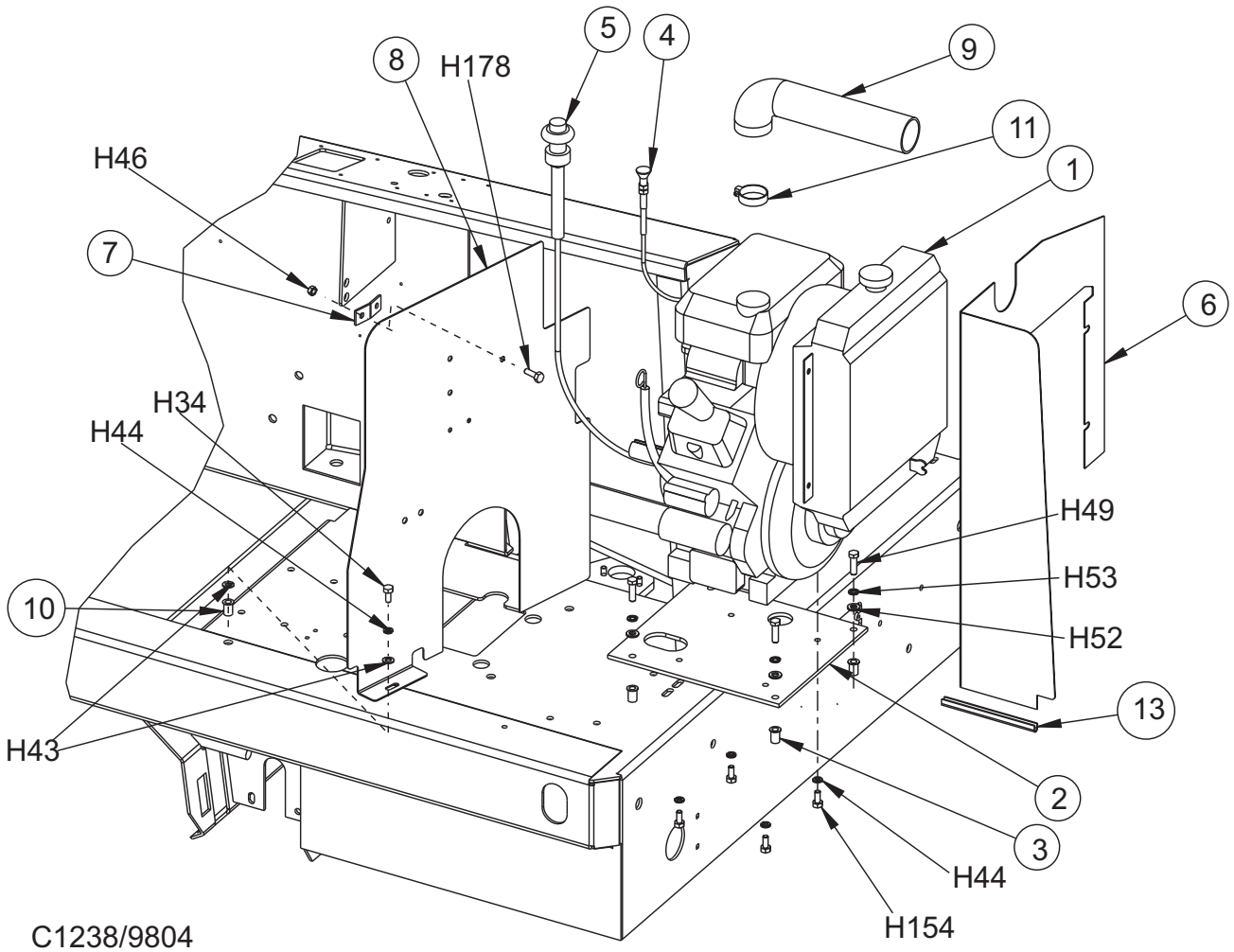

C1238/9804

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Item	Ref. No.	Qty	Description
1	0877-059	1	Engine
2	8-58-05783	1	Mounting Plate
3	2-00-05347	4	Threaded Insert, 3/8-16
4	8-16-00059	1	Cable, Choke
5	8-10-00042	1	Cable, Throttle
6	8-52-00187	1	Panel, Heat Baffle
7	8-13-07153	1	Clip, Heat Baffle
8	8-52-00183	1	Baffle, Radiator Heat
9	8-33-02349	1	Hose
10	2-00-05330	1	Threaded Insert, 5/16-18
11	2-00-02216	1	Clamp, Hose
12	8-21-04015	1	Edging
13	0895-144	Ref.	Harness, Engine (not shown)
14	2-00-00208	1	Screw, 5/16-18 x .750 HHC
15	2-00-00409	2	Flat Washer, .687 x .344 x .062
16	2-00-00530	5	Lock Washer, 5/16 HS Med.
17	2-00-00644	1	Nut, 5/16-18, Insert Fiber
18	2-00-00209	4	Screw, 3/8-16 x 1.250 HHC
19	2-00-00402	3	Flat Washer, .750 x .390 x .094
20	2-00-02310	4	Lock Washer, Helical Spring 3/8 Med.
21	2-00-04363	4	Screw, M8 - 1.250 x .750
22	2-00-00206	1	Screw, 5/16-18 x 1.000 HHC

KAWASAKI ENGINE SERVICE PARTS:

Oil Filter	8-24-04152		
Oil Pressure Switch	8-82-00066	Fuel Pump	8-60-05031
Pump Case Gasket	8-29-00274	Thermostat	8-84-08004
Air Filter	8-24-04149 (foam)	Rocker Case Gasket	8-29-00275
	8-24-04150 (element)	Water Pump	8-60-05032
Igniter	8-14-07013	Head Gasket	8-29-00263
Spark Plug (each)	8-75-03011	Ignition Coil	8-14-07014
Spark Plug Cap	8-75-03010	Solenoid	8-75-00015
Upper Cooling Hose	8-33-02354	Lower Cooling Hose	8-33-02355
Voltage Regulator	8-63-05015	Carburetor Gasket	8-29-00271
Carb. Cap Gasket	8-29-00265	Main Jet Gasket	8-29-00266
Muffler Gasket	8-29-00267	Thermostat Cover Gasket	8-29-00268
Intake Manifold Gasket	8-29-00269	Intake Manifold Gasket	8-29-00270
Crankcase Cover Gasket	8-29-00272	Pump Cover Gasket	8-29-00273

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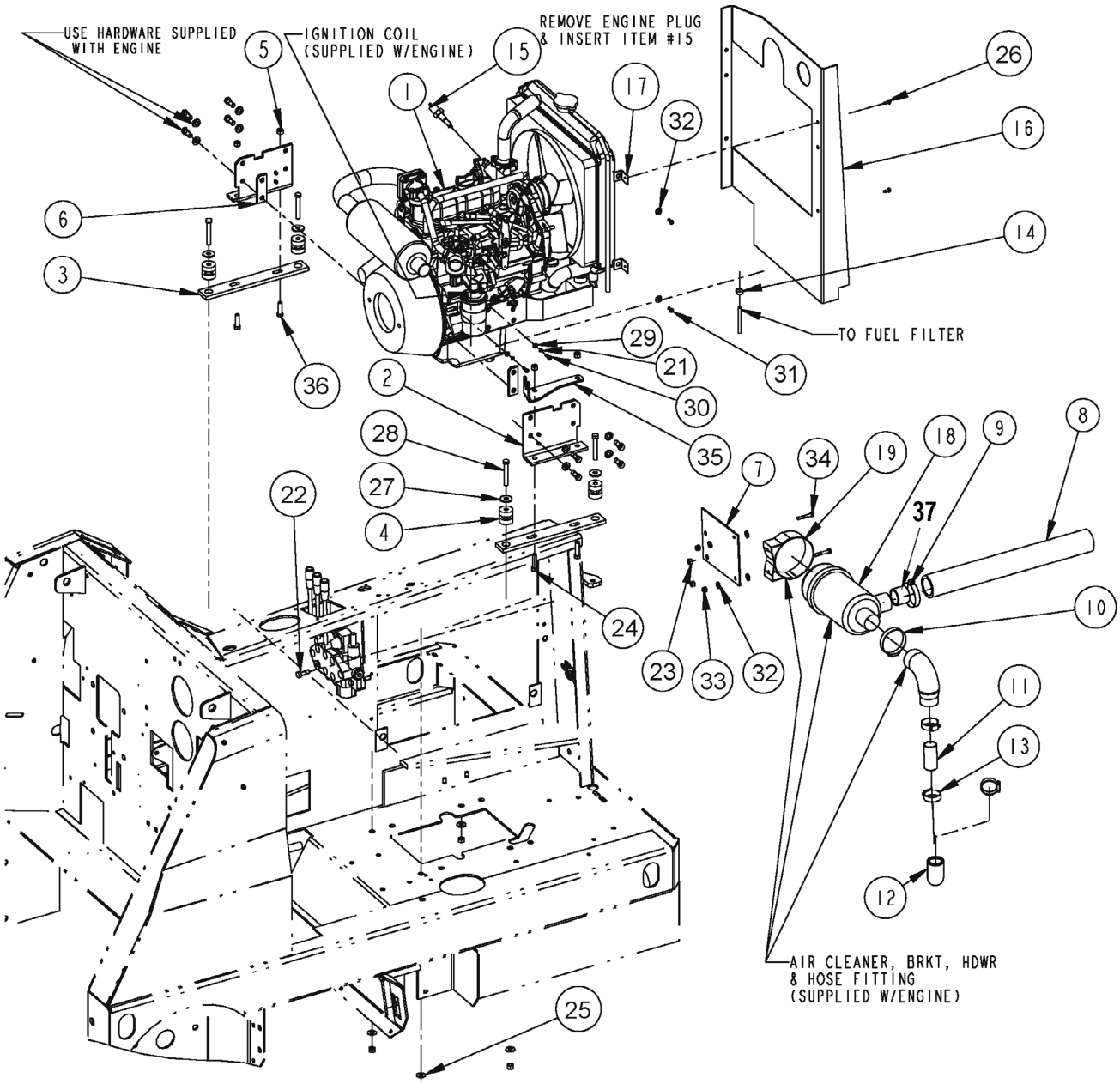

FORM NO. 56042480

Packaging - Processing
Bid on Equipment
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Item	Ref. No.	Qty	Description
1	0877-067	1	Engine - 3 cyl Kubota Gas
	7-33-05153		Flywheel Housing: SAE-B (service part)
2	8-08-00835	2	Bracket - Engine Mtg.
3	8-52-00173	2	Rail - Engine Mtg.
4	8-75-01155	4	Isolator - Vibration
5	2-95-04182	8	Fiber Nut
6	8-75-01222	2	Spacer - Engine Bracket
7	8-08-00956	1	Bracket - Air Filter
8	8-33-02405	1	Hose - Air Inlet
9	2-00-02216	1	Clamp - Hose
10	2-00-03404	1	Clamp - Hose
11	8-56-04054	1	Pipe - Air Intake
12	8-33-02361	1	Hose - Lower Air Cleaner
13	2-00-03404	3	Clamp - Hose
14	2-95-04388	1	Clamp - Hose
15	7-82-00031	1	Switch - Water Temp
16	8-52-00199	1	Panel - Radiator Heat
17	8-13-07160	2	Clip - Heat Baffle
18	8-24-04160	Ref	Air Cleaner Assy.
19	8-13-07174	Ref	Clamp
20	0895-146	Ref	Harness, Engine (not shown)
21	2-00-00519	2	Lock Washer, # 10 Med HS
22	2-00-02708	1	Screw, 5/16-18 x 1.000 HHM
23	2-00-00644	2	Nut, 5/16-18, Insert Fiber
24	2-00-00234	2	Screw, 3/8-16 x 1.50 HHC
25	2-00-00410	4	Flat Washer, .875 x .375 x .060
26	2-00-03940	2	Screw, #10-24 x .500 T/C HH
27	2-00-03266	4	Washer
28	2-00-00236	4	Screw, 3/8-16 x 2.500 HHC
29	2-00-00466	2	Flat Washer, .625 x .203 x .031
30	2-00-05148	2	Screw - HHC M5 x 0.8 x 16 MM
31	2-00-05490	1	Screw, M5 x 0.8 x 12mm
32	2-00-03702	3	Flat Washer, .625 x .281 x .063
33	2-00-00641	1	Nut, 1/4-20 Fiber Insert
34	2-00-00203	1	Nut, 3/8-16 Elastic Stop
35	7-08-01262	1	Bracket, Forward/Reverse Cable
36	2-00-00209	2	Screw, 3/8-16 x 1.25 HHC
37	56109310	1	Pipe, PVC SCh 40

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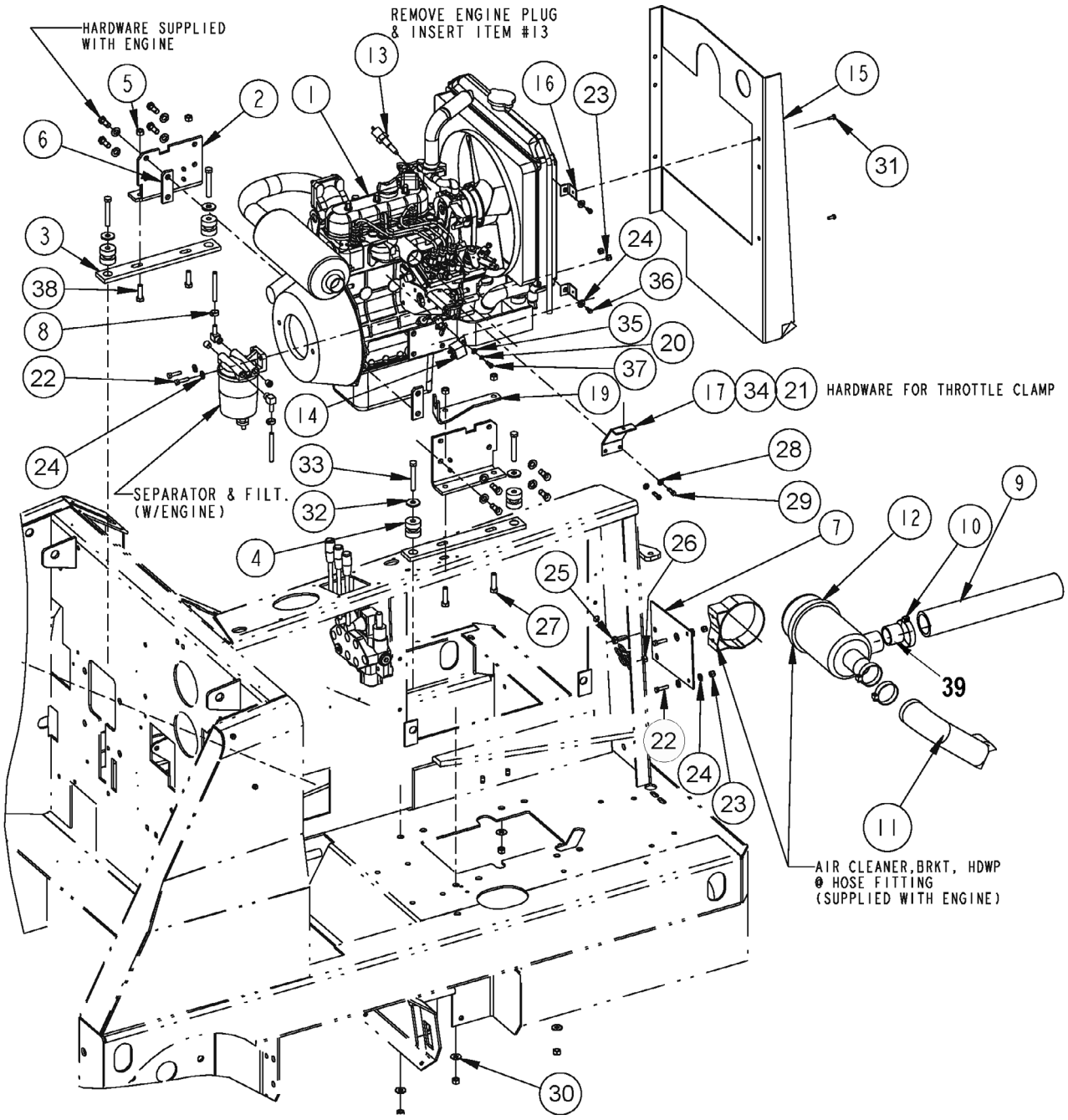

FORM NO. 56042480

Packaging - Processing
Bid on Equipment
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Item	Ref. No.	Qty	Description
1	0877-070	1	Engine, 3-cyl Kubota Diesel
	7-33-05153		Flywheel Housing: SAE-B (service part)
2	8-08-00835	2	Bracket, Engine Mtg
3	8-52-00173	2	Rail, Engine Mtg
4	8-75-01155	4	Isolator, Vibration
5	2-95-04182	8	Nut, 3/8-16 Fiber Insert
6	8-75-01222	2	Spacer, Engine Bracket
7	8-08-00956	1	Bracket , Air Filter
8	2-95-04388	2	Clamp, Hose
9	8-33-02405	1	Hose, Air Inlet
10	2-00-02216	3	Clamp, Hose
11	8-33-02363	1	Hose, Air Cleaner to Engine
12	8-24-04160	1	Air Cleaner Assy.
	8-24-04161	1	Element, Air Cleaner (service part)
13	7-82-00031	1	Switch, Water Temperature
14	8-64-00012	1	Relay
15	8-52-00199	1	Panel, Radiator Heat
16	8-13-07160	2	Clip, Heat Baffle
17	7-08-00763	1	Bracket, Throttle Mount
18	0895-145	1	Harness, Engine (not shown)
19	7-08-01262	1	Bracket, Forward/Reverse Cable
20	2-00-00519	1	Lock Washer, # 10 Med HS
21	2-00-01246	1	Nut, #10-24 Fiber Insert
22	2-00-00205	3	Screw, ¼-20 x 1.000 HHC
23	2-00-00641	4	Nut, ¼-20 Insert Fiber
24	2-00-03702	4	Washer, .625 x .281 x .063
25	2-00-02708	1	Screw, 5/16-18 x 1.000 HHM
26	2-00-00644	1	Nut, 5/16-18, Insert Fiber
27	2-00-00234	2	Screw, 3/8-16 x 1.50 HHC
28	2-00-00518	2	Lock Washer, Helical Spring
29	2-00-05279	2	Screw, M6 x 1.0 x 20 mm MHHC
30	2-00-00410	4	Flatwasher, .875 x .375 x .060
31	2-00-03940	2	Screw, #10 - 24 x .500 T/C HH
32	2-00-03266	4	Washer
33	2-00-00236	4	Screw, 3/8-16 x 2.500 HHC
34	2-00-04794	1	Screw, #10-24 x .625 BHS
35	2-00-00466	1	Flat Washer, .625 x .203 x .031
36	2-00-05490	1	Screw - M5 x 0.8 x 12 MM
37	2-00-05148	1	Screw - HHC M5 x 0.8 x 16 MM
38	2-00-00209	2	Screw, 3/8-16 x 1.25 HHC
39	56109310	1	Pipe, PVC SCh 40
*	56504460	1	Filter, Fuel Water Assy

* = Optional, Not Included

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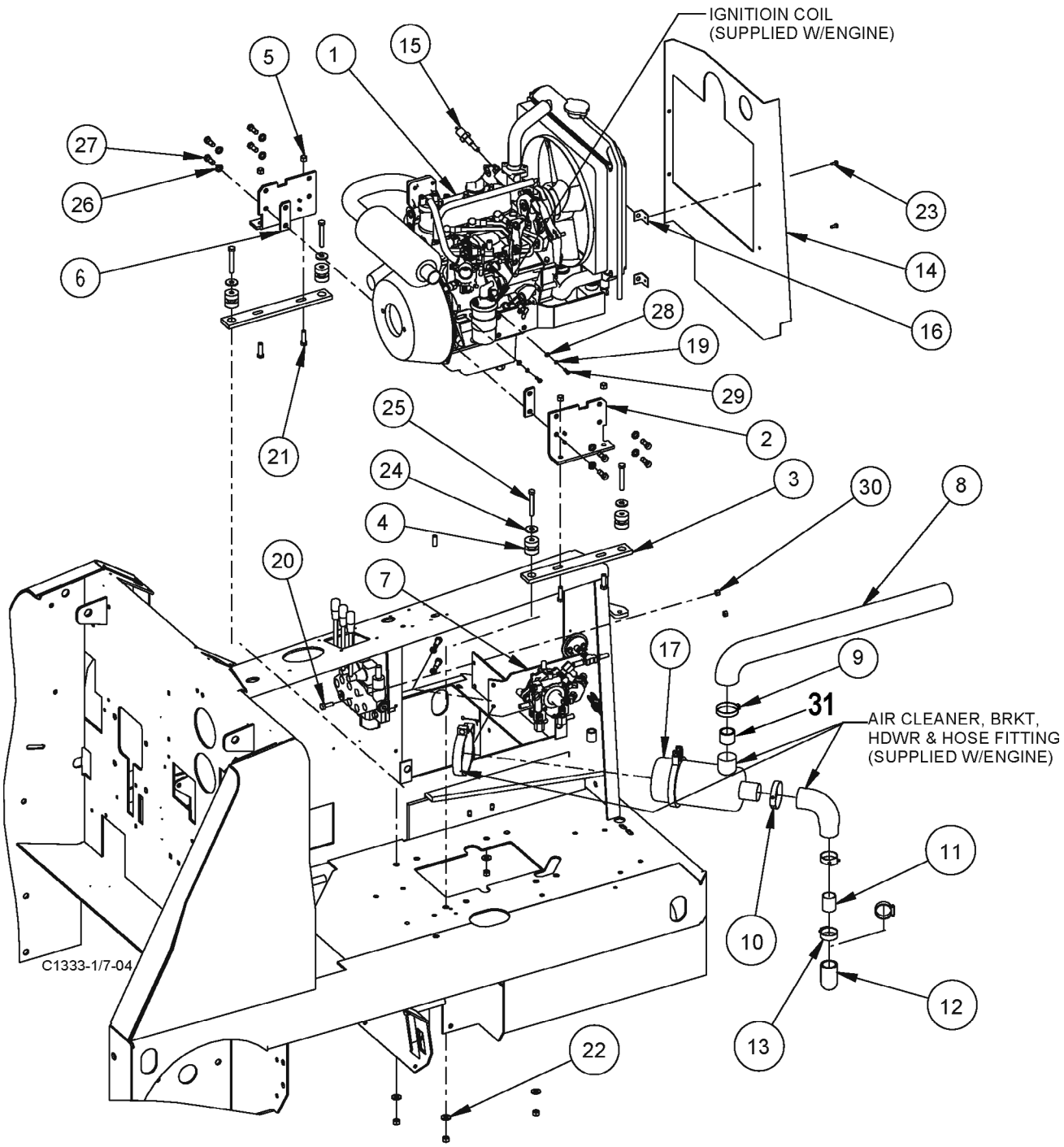

Packaging - Processing
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Item	Ref. No.	Qty	Description
1	0877-069	1	Engine - 3 cyl Kubota Gas
	7-33-05153		Flywheel Housing: SAE-B (service part)
2	8-08-00835	2	Bracket - Engine Mtg.
3	8-52-00173	2	Rail - Engine Mtg.
4	8-75-01155	4	Isolator - Vibration
5	2-95-04182	8	Fiber Nut
6	8-75-01222	2	Spacer - Engine Bracket
7	8-08-00955	1	Bracket - Air Filter
8	8-33-02364	1	Hose - Air Inlet
9	2-00-02216	1	Clamp - Hose
10	2-00-03404	1	Clamp - Hose
11	8-56-04054	1	Pipe - Air Intake
12	8-33-02361	1	Hose - Lower Air Cleaner
13	2-00-03404	3	Clamp - Hose
14	8-52-00199	1	Panel - Radiator, Heat
15	7-82-00031	1	Switch - Water Temp
16	8-13-07160	2	Clip - Heat Baffle
17	8-24-04160	1	Air Cleaner Assy.
	8-24-04161	1	Element, Air Cleaner (service part)
18	0895-146	1	Harness, Engine (not shown)
19	2-00-00519	2	Lock Washer, # 10 Med HS
20	2-00-02708	1	Screw, 5/16-18 x 1.000 HHM
21	2-00-00209	4	Screw, 3/8-16 x 1.250 HHC
22	2-00-00410	4	Flat Washer, .875 x .375 x .060
23	2-00-03940	2	Screw, #10-24 x .500 T/C HH
24	2-00-03266	4	Washer
25	2-00-00236	4	Screw, 3/8-16 x 2.500 HHC
26	2-00-05042	8	Lockl Washer, M10
27	2-00-04366	8	Screw, M10 x 1.500 x 25mm
28	2-00-00466	2	Flat Washer, .625 x .203 x .031
29	2-00-05148	2	Screw - HHC M5 x 0.8 x 16 MM
30	2-00-00644	2	Nut, 5/16-18, Insert Fiber
31	56109310	1	Pipe, PVC SCh 40

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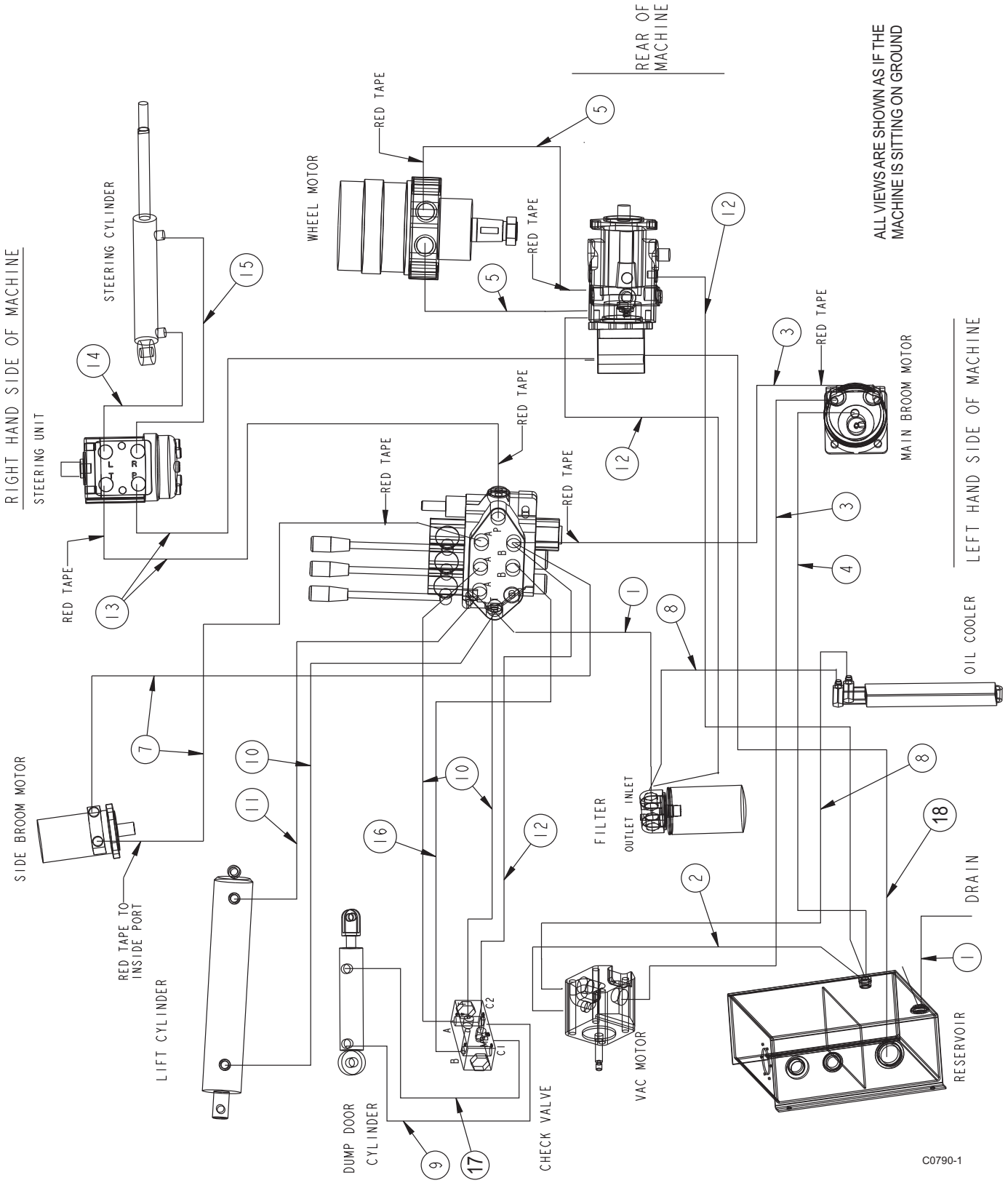

FORM NO. 56042480

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Item	Ref. No.	Qty	Description
1	8-33-02193	2	#8 x 18.0” 0-0 ORS
2	8-33-02329	1	#4 x 30.0” 0-90 ORS
3	8-33-02325	2	#8 x 65.0” 0-0 ORS
4	7-33-02193	1	#4 x 49.0” 0-90 ORS
5	8-33-02191	2	#8 x 56.50” 0-0 ORS
7	8-33-02213	2	#8 x 88.0” 0-0 ORS
8	8-33-02419	2	#8 x 20.5” 0-45 ORS
9	8-33-02184	1	#4 x 50.5” 0-0 ORS
10	8-33-02199	3	#4 x 24.5” 0-90 ORS
11	7-33-02225	1	#4 x 38.0” 0-90 ORS
12	8-33-02176	3	#4 x 21.0” 0-90 ORS
13	7-33-02187	2	#8 x 42.0” 0-0 ORS
14	8-33-02179	1	#4 x 46.0” 0-0 ORS
15	8-33-02184	1	#4 x 50.5” 0-0 ORS
16	7-33-02189	1	#4 x 26.0” 0-90 ORS
17	8-33-02179	1	#4 x 46.0” 0-0 ORS
18	7-33-02700	1	3/4” ID Gates GMV (11”)

NOTE: ITEMS 1 - 17 ARE PART OF HOSE KIT 0860-670-1

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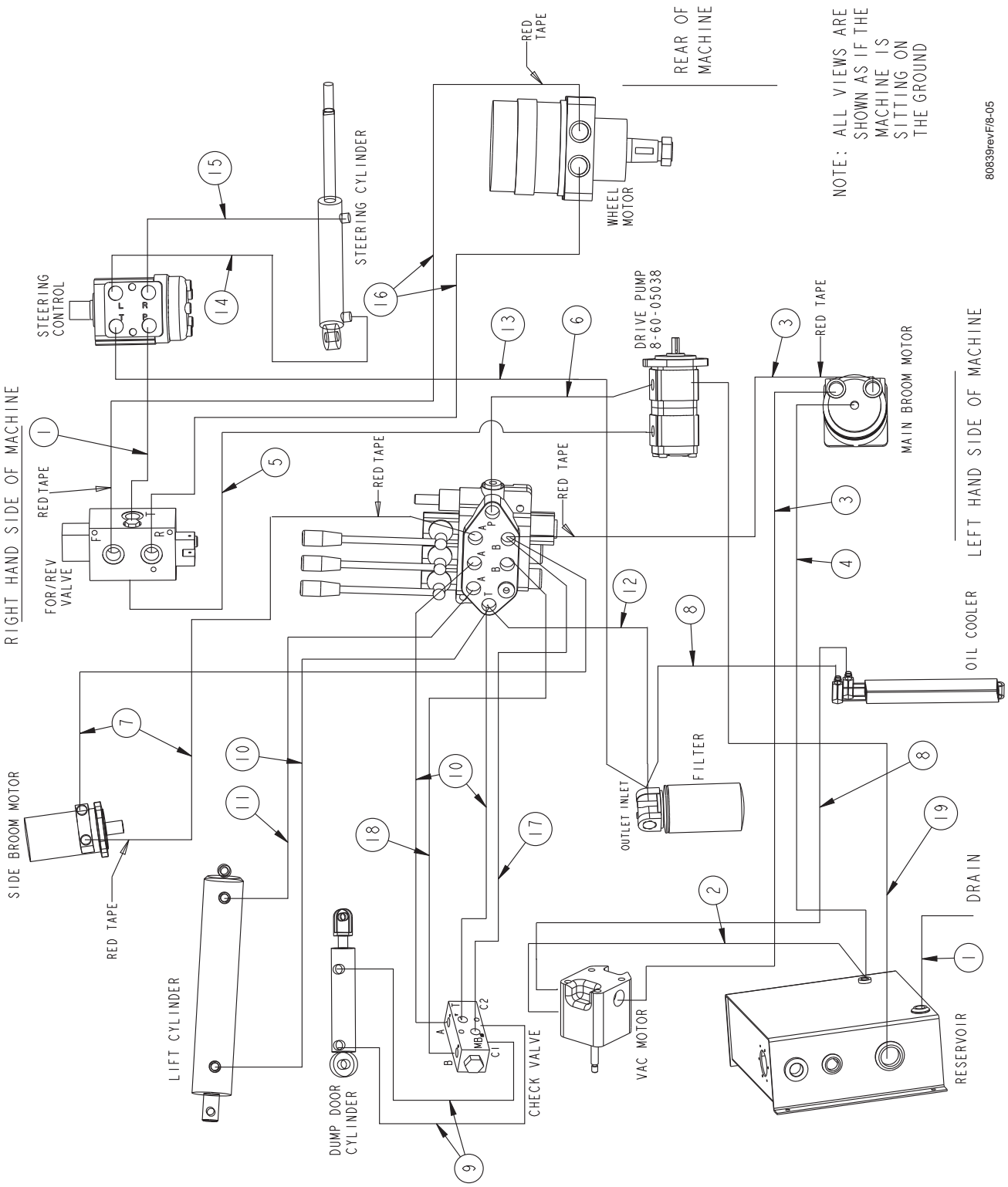

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Item	Ref. No.	Qty	Description
1	8-33-02193	2	#8 x 18.0” 0-0 ORS
2	8-33-02329	1	#4 x 30.0” 0-90 ORS
3	8-33-02325	2	#8 x 65.0” 0-0 ORS
4	7-33-02193	1	#4 x 49.0” 0-90 ORS
5	8-33-02191	1	#8 x 56.5” 0-0 ORS
6	7-33-02206	1	#8 x 14.25” 0-90 ORS
7	8-33-02213	2	#8 x 88.0” 0-0 ORS
8	7-33-02201	2	#8 x 20.5” 0-0 ORS-JIC
9	8-33-02184	2	#4 x 55.5” 0-0 ORS
10	8-33-02199	3	#4 x 24.5” 0-90 ORS
11	7-33-02225	1	#4 x 38.0” 0-90 ORS
12	7-33-02205	1	#8 x 16.5” 0-90 ORS
13	7-33-02187	1	#8 x 42.0” 0-0 ORS
14	8-33-02179	1	#4 x 46.0” 0-0 ORS
15	8-33-02184	1	#4 x 50.5” 0-0 ORS
16	7-33-02192	2	#8 x 90.0” 0-90 ORS
17	8-33-02176	1	#4 x 21.0” 0-90 ORS
18	7-33-02189	1	#4 x 23.0” 0-90 ORS
19	8-33-02408	1	#12 x 20.0” 0-90 ORS

ALL HOSES PART OF KIT 0860-602

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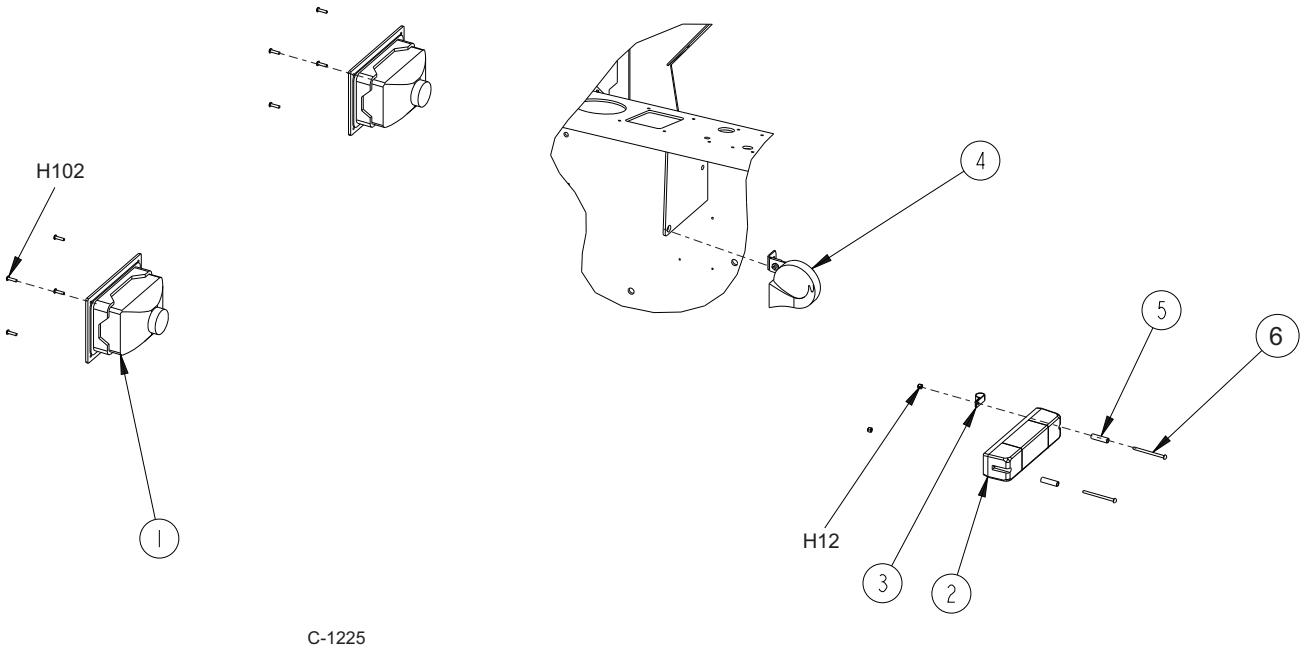

C-1225

Item	Ref. No.	Qty	Description
1^	8-40-05051	2	Head Light
1*	8-40-05052	2	Head Light
2^	8-40-05044	1	Tail Light
2*	8-40-05053	1	Tail Light
3	2-00-04210	1	Clamp
4^	8-32-09013	1	Horn
4*	8-32-09008	1	Horn
5	8-75-01207	2	Spacer, Tail Light Mounting
6	2-00-02933	2	Screw-PH PN HD #10-24 x 3.50 ZN

HARDWARE USED:

H12	2-00-01246	2	Nut, Hex Fiber Insert #10-24
H102	2-00-04795	8	Screw, #10-24 x .750 BHS

^ Use on Gas/LP & Diesel Machines Only
* Use on Battery Machines Only

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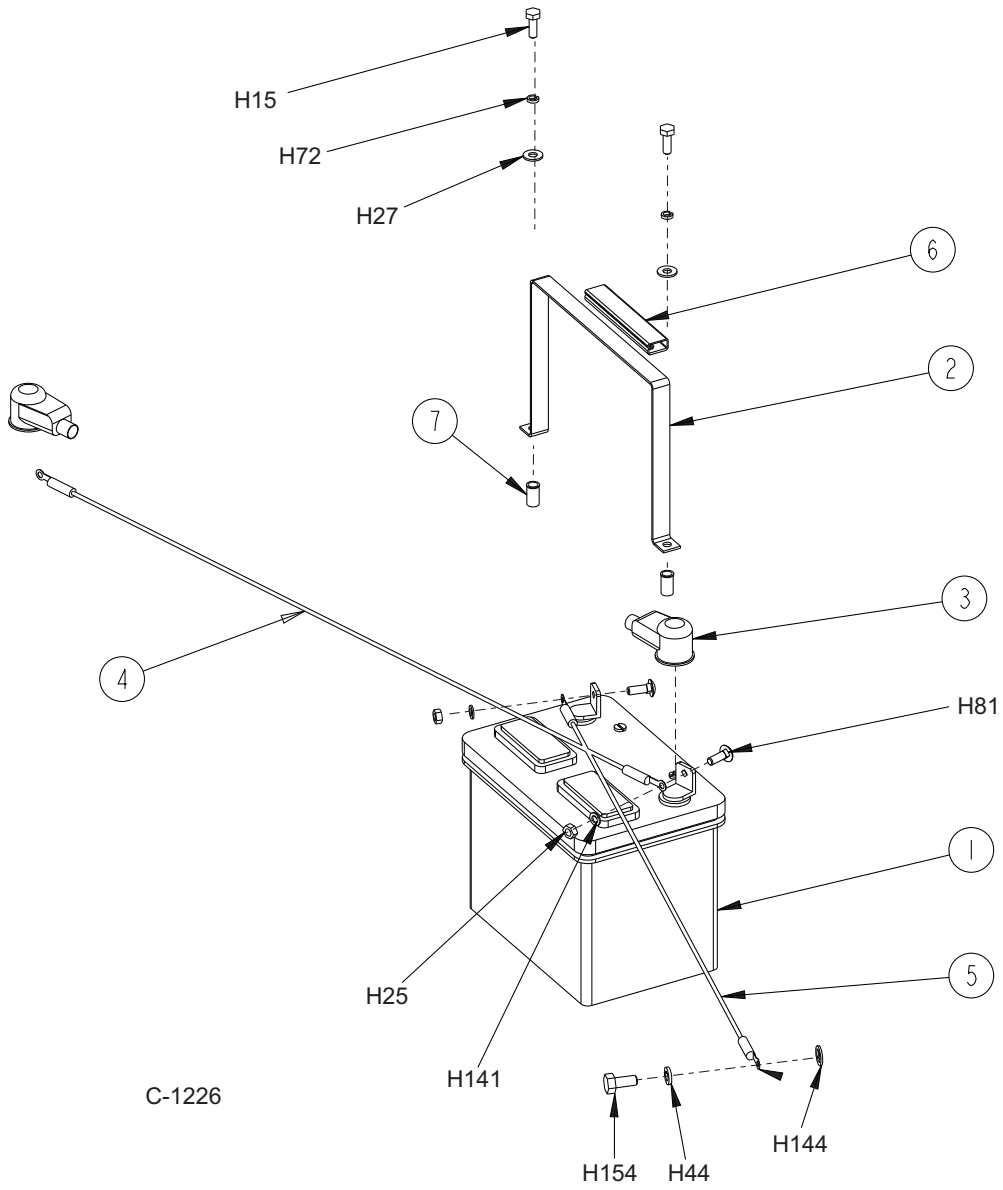

Item	Ref. No.	Qty	Description
1	0775-117	1	Battery
2	8-79-00126	1	Strap, Battery
3	2-00-04952	2	Boot, Red
4	8-90-07436	1	Positive Cable
5	8-90-07435	1	Negative Cable
6	8-20-06039	1	Duct, Wire
7	2-00-05261	2	Threaded Insert, 1/4-20

HARDWARE USED:

H15	2-00-00221	2	Screw, 1/4-20 x .750 HHC
H25	2-00-00594	2	Nut, Hex 1/4-20 x .437 x .218
H27	2-00-03702	2	Washer, .625 x .281 x .063
H72	2-00-00518	2	Lock Washer, Helical Spring
H86	2-00-03575	1	Carriage Bolt, 1/4-20 x .750
H141	2-00-00501	2	Lock Washer, Int.

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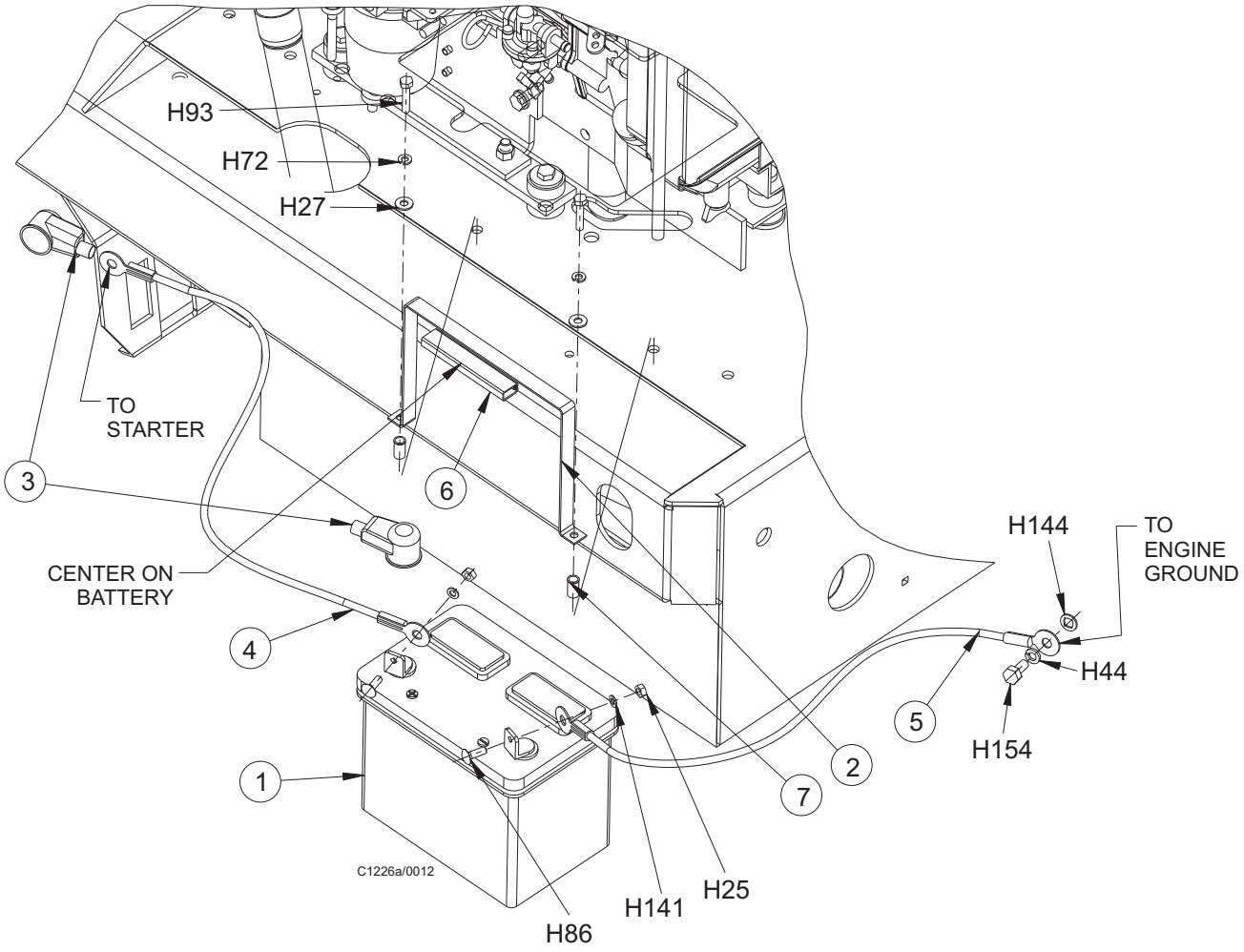

Item	Ref. No.	Qty	Description
1	0775-117	1	Battery
2	8-79-00126	1	Strap - Battery
3	2-00-04952	2	Boot - Red
4	8-90-07436	1	POS Cable
5	8-90-07435	1	NEG Cable
6	8-20-06039	1	Duct - Wire
7	2-00-05261	2	¼-20 Thd Insert

HARDWARE USED:

H25	2-00-00594	2	Nut, Hex ¼-20 x .437 x .218
H27	2-00-03702	2	Washer, .625 x .281 x .063
H44	2-00-00530	2	Lock Washer, 5/16 HS Med.
H72	2-00-00518	2	Lock Washer, Helical Spring
H86	2-00-00221	2	Screw, 1/4-20 x .750 HHC
H93	2-00-00222	2	Screw, ¼-20 x 1.250 HHM
H141	2-00-00501	2	Lock Washer, Int.
H144	2-00-02303	1	Lock Washer, Int.
H154	2-00-04363	1	Screw, M8-1.250 x .750

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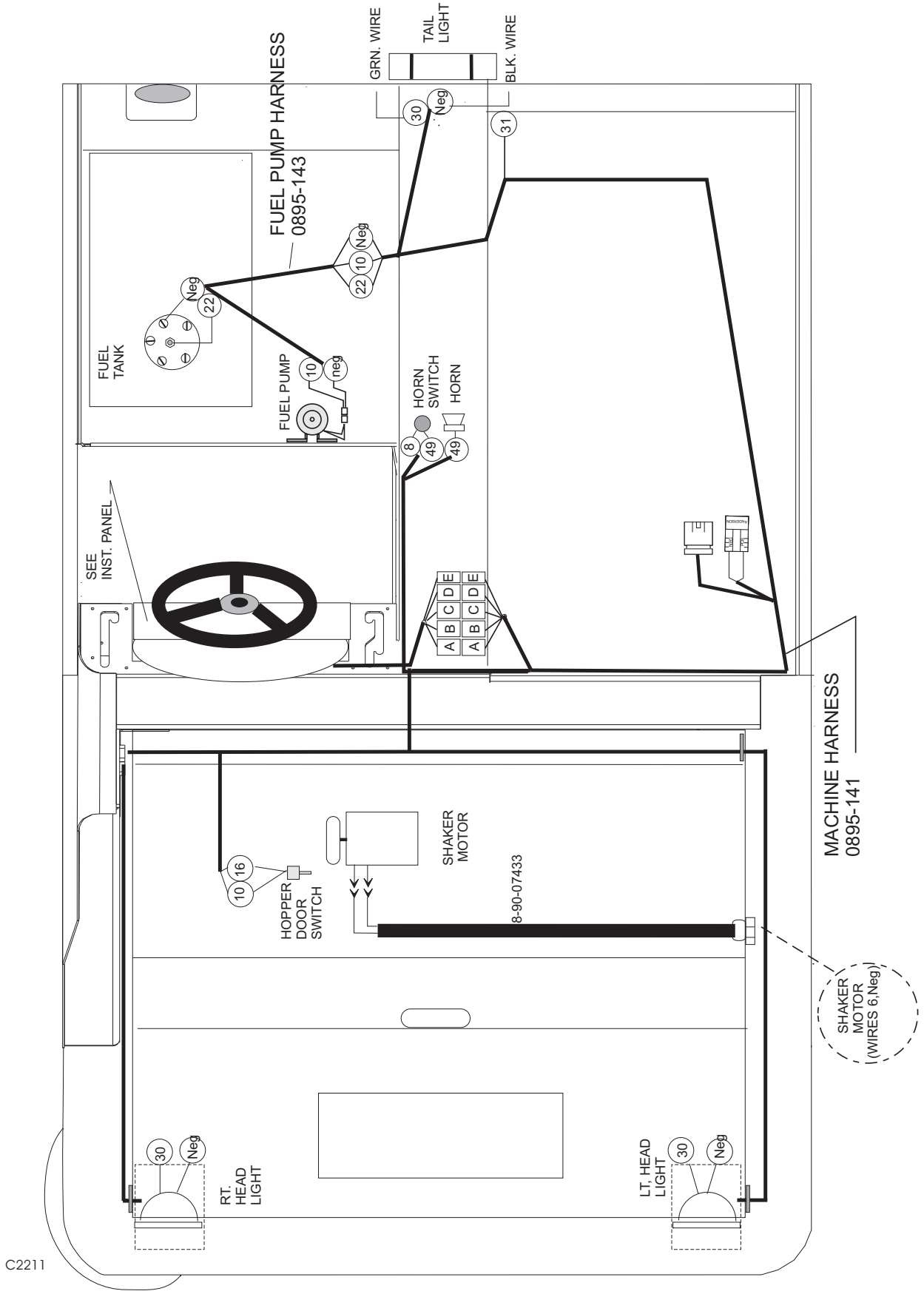

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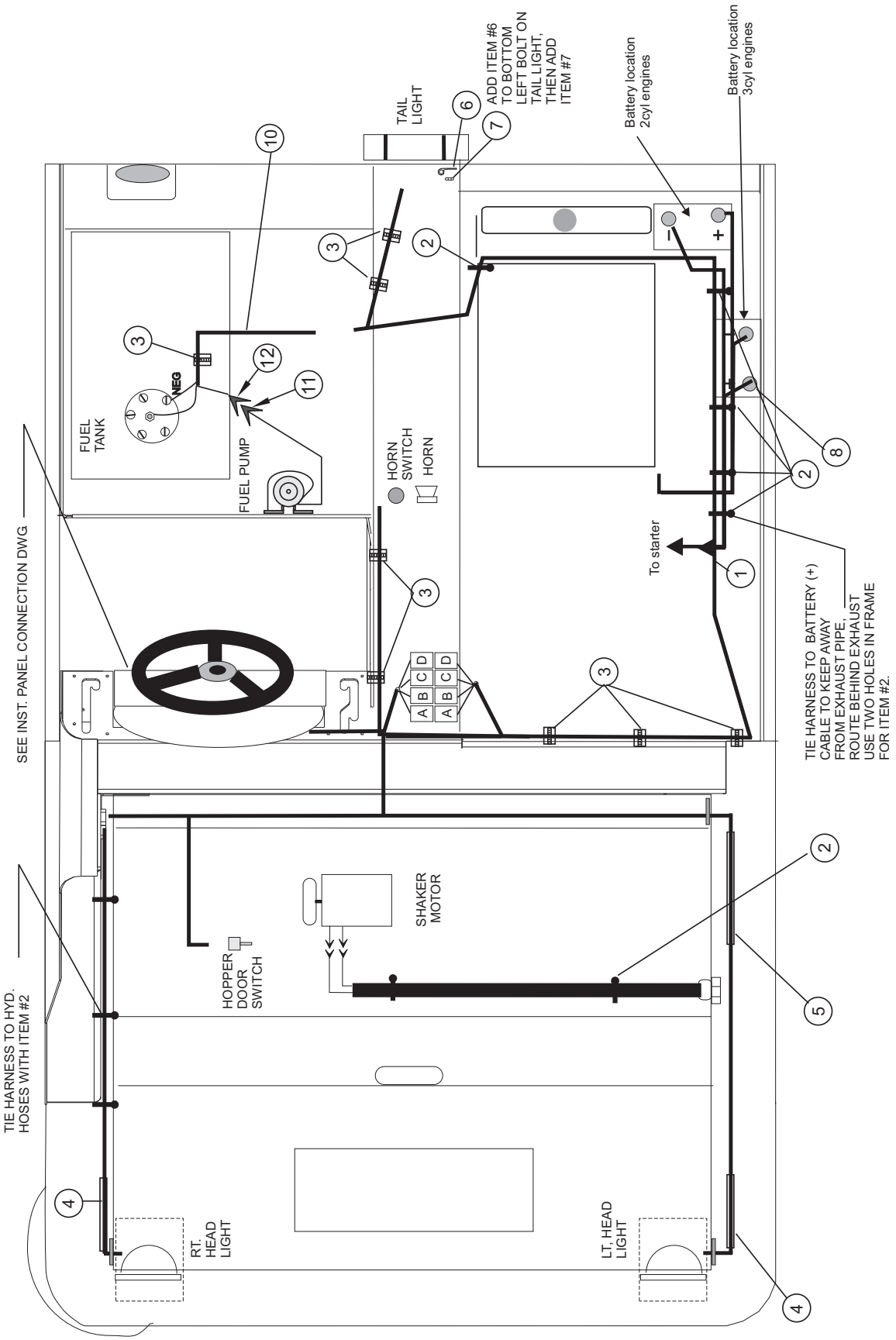
TAIL LIGHT
ADD ITEM #6 TO BOTTOM LEFT BOLT ON TAIL LIGHT, THEN ADD ITEM #7
Battery location 2cyl engines
Battery location 3cyl engines
FUEL TANK
NEG
FUEL PUMP
HORN SWITCH
HORN
To starter
SEE INST. PANEL CONNECTION DWG
TIE HARNESS TO BATTERY (+) CABLE TO KEEP AWAY FROM EXHAUST PIPE, ROUTE BEHIND EXHAUST USE TWO HOLES IN FRAME FOR ITEM #2.
SHAKER MOTOR
HOPPER DOOR SWITCH
TIE HARNESS TO HYD. HOSES WITH ITEM #2
RT. HEAD LIGHT
LT. HEAD LIGHT
A B C D

FORM NO. 56042480

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Item	Ref. No.	Qty	Description
1	0895-141	1	Harness, Machine
2	2-00-04345	10	Tye Rap
3	7-13-07096	6	Clamp
4	8-20-06039	2	Duct 4.0”
5	8-20-06036	1	Duct 12.0”
6	2-00-04210	1	Clamp
7	2-00-01246	1	Nut, 10-24 lock
8	2-00-04952	1	Red Boot
9	2-00-04203	1	Black Boot
10	0895-143	1	Harness, Fuel Pump
11	2-00-04551	2	Connector, Male
12	2-00-04584	2	Connector, Female

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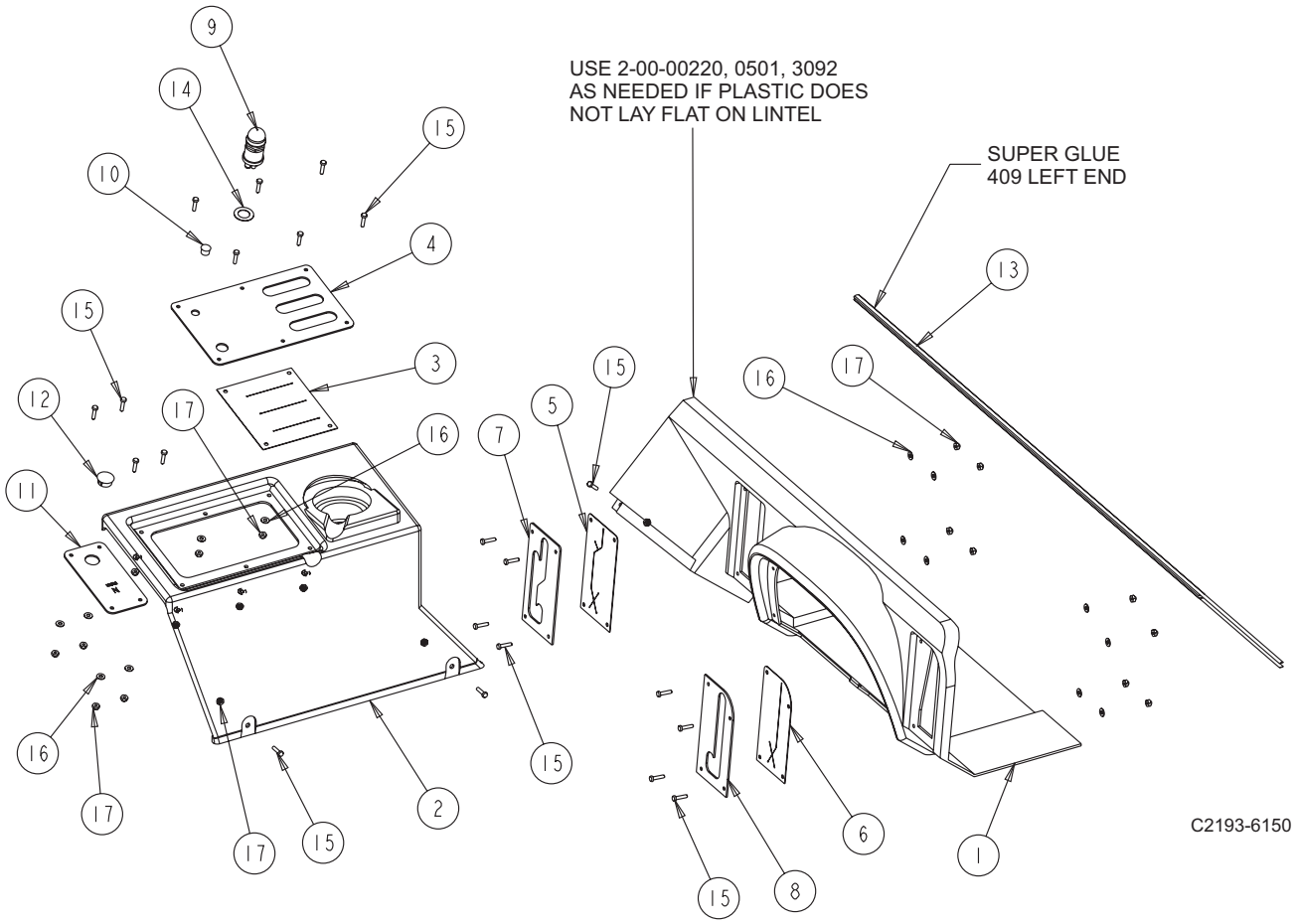

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Item	Ref. No.	Qty	Description
1*	8-33-05118	1	Housing, Instrument
2*	8-33-05119	1	Housing, Center Wall
3	8-16-07356	1	Cover, Valve Slot
4*	8-52-00196	1	Panel, Control Valve
5	8-16-07355	1	Cover, Main Broom Slot
6	8-16-07354	1	Cover, Side Broom Slot
7*	8-52-00194	1	Panel, Main Broom
8*	8-52-00195	1	Panel, Side Broom
9	8-82-00024	1	Horn, Push Button
10	2-00-05283	1	Plug Button
11	8-52-00189	1	Panel, Throttle (Gas, LP, Diesel)
12	2-00-04513	1	Plug (Battery Only)
13	8-68-05081	1	Seal, Trim
14	2-00-02293	1	Lock Washer, Int. Tooth, .63 dia.
15	2-00-05337	21	Screw, #8-32 x .75 BHS SS
16	2-00-00460	18	Flat Washer, .437 x .192 x .031
17	2-00-01372	21	Nut, #8-32 Fiber Insert Lock

*Part of 0860-630

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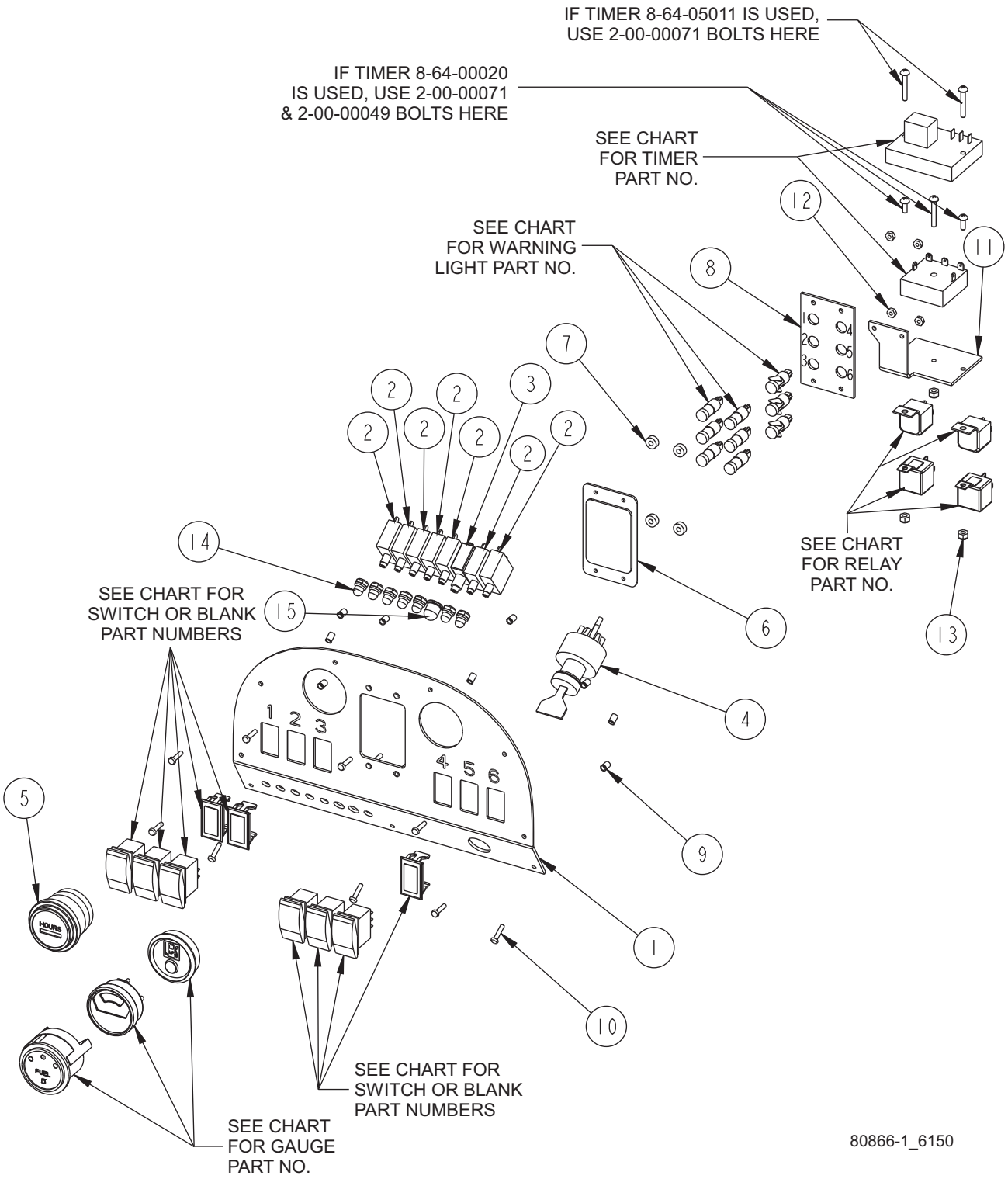
IF TIMER 8-64-05011 IS USED, USE 2-00-00071 BOLTS HERE
IF TIMER 8-64-00020 IS USED, USE 2-00-00071 & 2-00-00049 BOLTS HERE
SEE CHART FOR TIMER PART NO.
SEE CHART FOR WARNING LIGHT PART NO.
SEE CHART FOR RELAY PART NO.
SEE CHART FOR SWITCH OR BLANK PART NUMBERS
SEE CHART FOR SWITCH OR BLANK PART NUMBERS
SEE CHART FOR GAUGE PART NO.
80866-1_6150

FORM NO. 56042480

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Item	Ref. No.	Qty	Description
1	8-52-00203	1	Panel, Instrument
2	8-64-00008	7	Circuit Breaker (15 amp)
3	7-64-00025	1	Circuit Breaker (25 amp)
4	7-82-00026	1	Switch, Anti-Restart Key
	2-60-02272		Ignition Key: (for 7-82-00026)
5	56478363	1	Gauge, Hour Meter
6	8-41-03014	1	Lens, Warning Light
7	0895-142	1	Harness, Instrument Panel (not shown)
8	8-58-05292-1	1	Plate, Warning Light
9	56109307	9	Insert, #8-32 Threaded
10	2-00-05337	9	Screw, #8-32 x .75 BHSC
11	8-08-00948	1	Bracket, Timer
12	2-00-01372	4	Nut, #8-32 Fiber Insert Lock
13	2-00-01246	3	Nut, #10-24 Elastic Stop
14	8-11-00044	7	Boot
15	56459369	1	Boot, Reset Button

SWITCH POSITIONS						
	1	2	3	4	5	6
	HEAD LIGHTS	WORK LIGHT	GLOW PLUG	FILTER SHAKER	DUST CONTROL	THROTTLE
GAS	8-82-00072	2-00-05375	2-00-05375	8-82-00073	8-82-00072	2-00-05375
LP	8-82-00072	2-00-05375	2-00-05375	8-82-00073	8-82-00072	2-00-05375
DIESEL	8-82-00072	2-00-05375	8-82-00073	8-82-00073	8-82-00072	2-00-05375
BATT.	8-82-00072	2-00-05375	2-00-05375	8-83-00073	8-82-00072	2-00-05375

0880-646 REAR WORK LIGHT-GAS, LP, DIESEL- (POSITION 2): 8-82-00072
0880-678 REAR WORK LIGHT-BATTERY-(POSITION 2): 8-82-00072

	LIGHT POSITIONS		GAUGE	TIMER	RELAY (2 PER)
	1 - 3	4 - 6			
GAS	7-40-05052	7-40-05053	8-48-05032	8-64-05011	8-64-05009
LP	7-40-05052	7-40-05053	7-11-04035	8-64-05011	8-64-05009
DIESEL	7-40-05052	7-40-05053	8-48-05032	8-64-05011	8-64-05009
BATT.	NA	7-40-05038	7-48-05024	8-64-00020	8-64-00019

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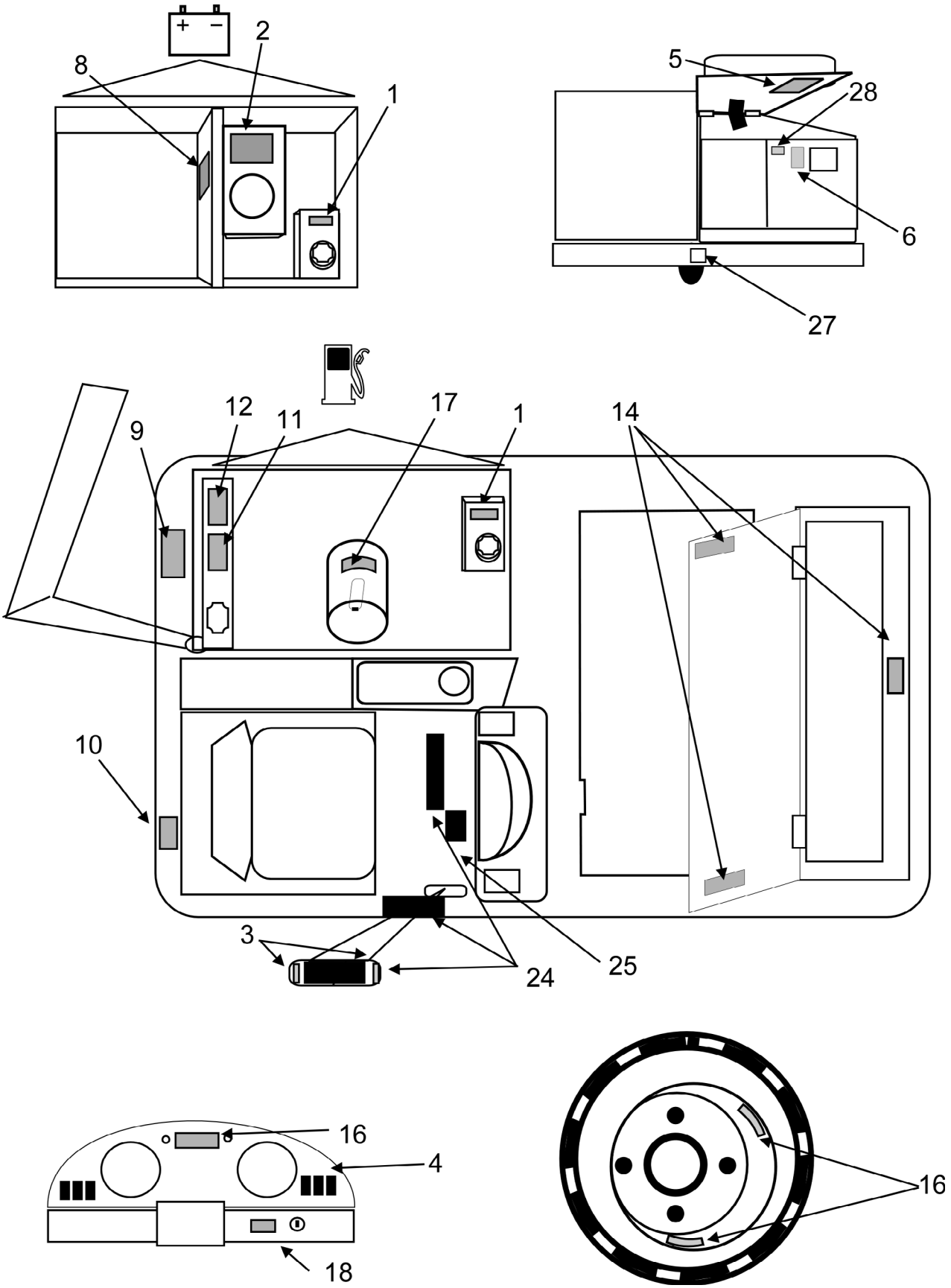

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Item	Ref. No.	Qty	Description
1<*	REF	1	Hydraulic Fluid Only
2<*	REF	1	Battery Charging Warning
3	8-18-00490	1	Bi-Directional Pedal - Horizontal
4<*~	8-18-00487	1	Blank Square - Option Covers
5<*	REF	3	Cover/Hopper Could Close
6<*	REF	1	Diesel Fuel Only (Diesel only)
6<*	REF	1	Gasoline Only (Gas only)
7<*	REF	1	Do Not Use with Flammables
8<*	REF	1	Electrical Hazard (Battery only)
9<*	REF	1	Exhaust Warning (Gas, LP, Diesel)
10<*	REF	1	Fire Hazard (Gas, Diesel)
11<*	REF	1	Moving Belts - Stay Clear (Gas, LP, Diesel)
12<*	REF	1	Moving Fan Blade - Stay Clear (Gas, LP, Diesel)
13<*	REF	1	Patent /Patents Pending
14<*	REF	7	Pinch Point - Stay Clear
15<*	REF	1	Read Operator's Manual
16<*	REF	3	Split Rim Pneumatic Tires
17<*	REF	1	Surface Hot - Stay Clear (Gas, LP, Diesel)
18<*	REF	1	Turn Off/Lock Wheel
19	8-18-00536	1	6150
20	8-18-00549	1	A-L Technology (small) - Export Only
21	8-18-00525	1	American-Lincoln Logo (medium)
	8-18-00528	1	Alto (large) - Export Only
22	8-18-00524	2	American-Lincoln Logo (small)
	8-18-00548	1	A-L Technology (large) - Export Only
23	REF	1	Serial Plate
24	7-50-05136	3	Non-Skid
25	8-50-05055	1	Non-Skid
26	2-00-04115	2	Rivets
27	56109273	3	Decal, Jack Point
28	56109404	1	Decal, Low Sulfur Diesel **(Diesel only) (American-Lincoln only)**

~Can be ordered separately but is also included in 0760-855

<No-Text Warning Decals and English Text Decals contained in Kit 0760-855

*ALL WARNING/SAFETY DECALS WITH TEXT SOLD IN A KIT BY LANGUAGE:

DANISH	0760-850	ITALIAN	0760-851
DUTCH	0760-849	FRENCH	0760-847
NORWEGIAN	0760-852	SPANISH	0760-846
SWEDISH	0760-853	PORTUGUESE	0760-854
GERMAN	0760-848	ENGLISH	0760-880#

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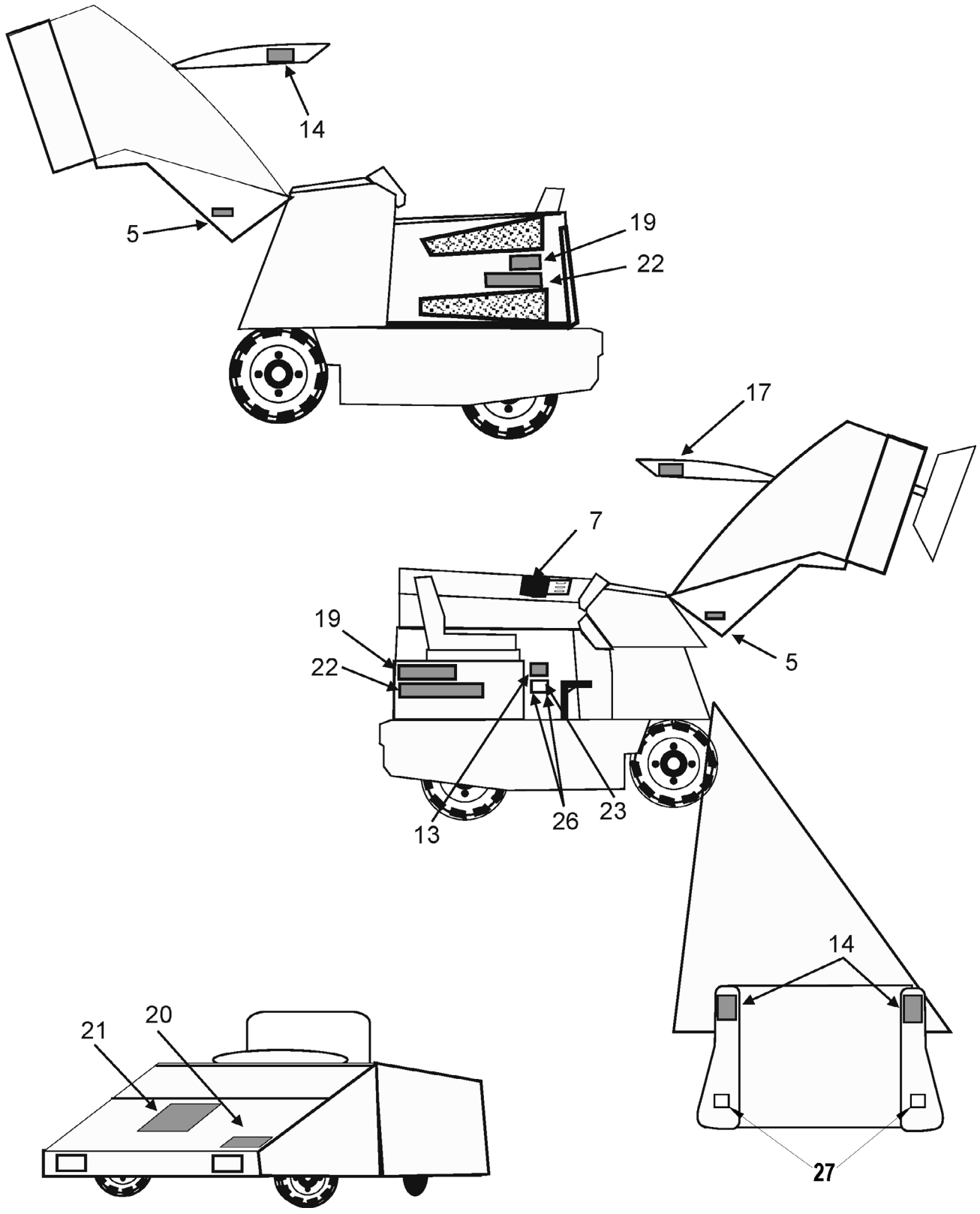

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Item	Ref. No.	Qty	Description
1<*	REF	1	Hydraulic Fluid Only
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3	8-18-00490	1	Bi-Directional Pedal - Horizontal
4<*~	8-18-00487	1	Blank Square - Option Covers
5<*	REF	3	Cover/Hopper Could Close
6<*	REF	1	Diesel Fuel Only (Diesel only)
6<*	REF	1	Gasoline Only (Gas only)
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14<*	REF	7	Pinch Point - Stay Clear
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17<*	REF	1	Surface Hot - Stay Clear (Gas, LP, Diesel)
18<*	REF	1	Turn Off/Lock Wheel
19	8-18-00536	1	6150
20	8-18-00549	1	A-L Technology (small) - Export Only
21	8-18-00525	1	American-Lincoln Logo (medium)
	8-18-00528	1	Alto (large) - Export Only
22	8-18-00524	2	American-Lincoln Logo (small)
	8-18-00548	1	A-L Technology (large) - Export Only
23	REF	1	Serial Plate
24	7-50-05136	3	Non-Skid
25	8-50-05055	1	Non-Skid
26	2-00-04115	2	Rivets
27	56109273	3	Decal, Jack Point

~Can be ordered separately but is also included in 0760-855

<No-Text Warning Decals and English Text Warning Decals contained in Kit 0760-855

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DUTCH	0760-849	FRENCH	0760-847
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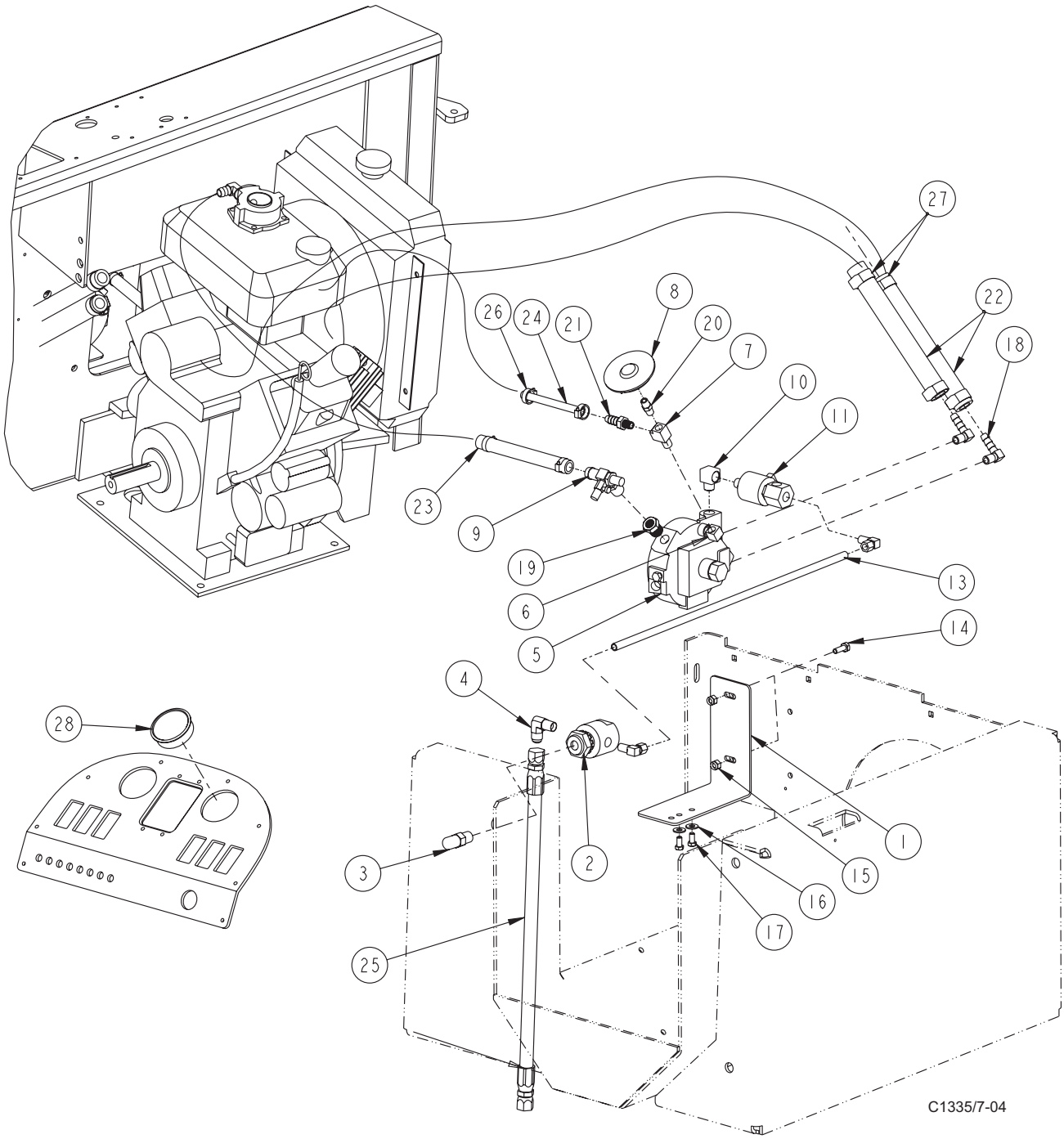

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Item	Ref. No.	Qty	Description
1	7-08-01285	1	Bracket, LP Regulator
2	2-00-06093	1	Fitting, 1/4 NPT 3-way Bulkhead
3	2-00-06094	1	Fitting, 1/4 NPT LP Relief Vent
4	8-56-05023	1	Fitting, 1/4 NPT 45° Flare Elbow
5	2-60-02316	1	LP Regulator, Beam 60 (N19-7100)
6	2-00-06097	1	Fitting, 1/8 NPT M x 1/8 NPT F 90°
7	2-00-06098	1	Fitting, 1/8 NPT MXF XF Tee
8	7-82-00060	1	Switch, Vacuum
9	2-00-06101	1	Fitting, Fuel Outlet
10	56111309	1	Street Elbow, 1/8 x 1/8
11	2-60-02315	1	Lock-Off, LP Inline (N3-0342)
12	2-00-03815	2	Fitting, 3/8 Tube x 1/4 NPT 90° SS Elbow
13	7-87-02247	1	Tube, LP High Pressure
14	2-00-00221	2	Bolt, 1/4 x 3/4 long Fin. Hex Head
15	2-00-00641	2	Nut, 1/4-20 Fiber Insert
16	2-00-03702	2	Washer, .625 x .281 x .063
17	2-00-00219	2	Bolt, 1/4-20 Fin. Hex Head
18	2-00-05464	2	Elbow Fitting, 1/4 NPT x 3/8 Barb
19	2-00-01135	1	Bushing, 1/4 NPT F x 3/8 NPT M
20	2-00-06096	1	Fitting, 1/8 NPT Hex Nipple
21	2-00-05983	1	Fitting, 1/8 NPT x 5/16 Hose Barb
22	7-33-02658	2	Hose, 5/8 ID x 30” long Heater
23#		1	Hose, 12mm ID x 16.5” long LP
24	7-33-02660	1	Hose, LP Vapor (24” long)
25	7-33-02654	1	Hose, LP High Pressure (19.25” long)
26	2-00-05363	4	Clamp. Hose
27	2-00-03407	4	Clamp, Witteck #10P Hose
28	2-00-05281	1	Plug, Fuel Gauge

= Revised or new since last update

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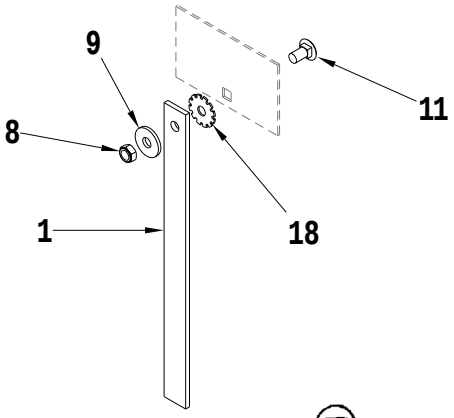
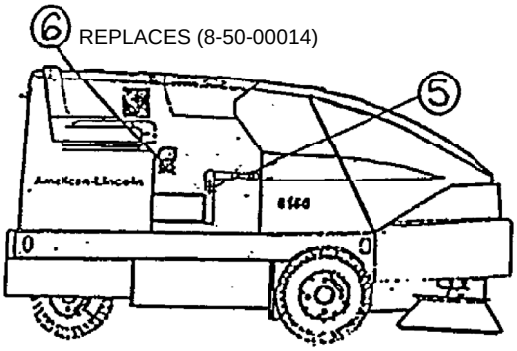
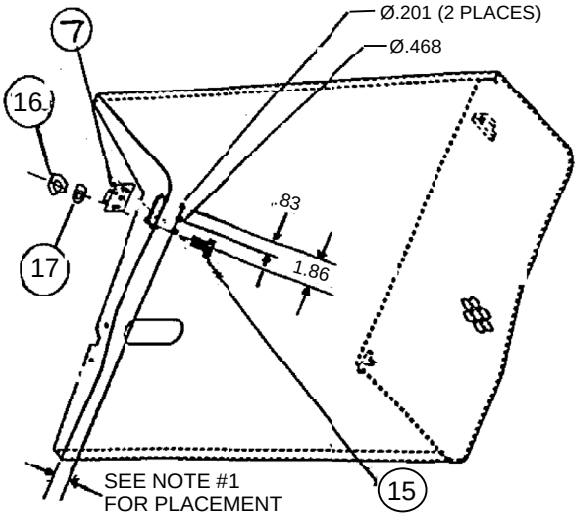
BROOM CHAMBER



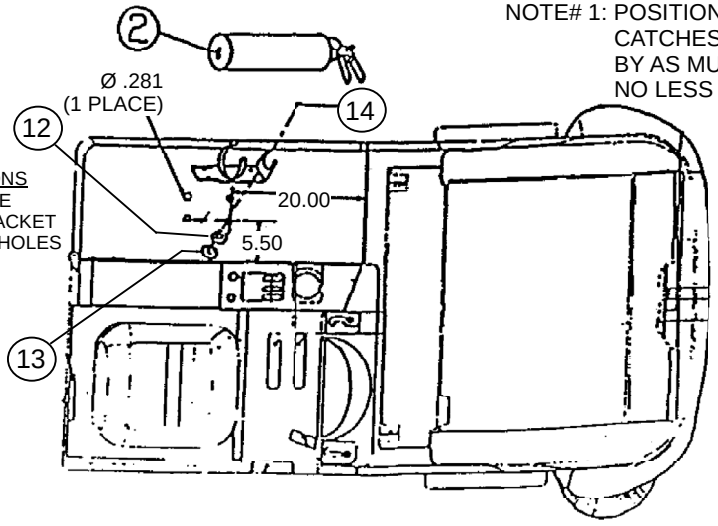




NOTE# 1: POSITION HOLE WHERE LATCH CATCHES AND HOLES BY AS MUNCH AS POSSIBLE BUT NO LESS THAN 3/16".

ENGINE COVER:
TOP VIEW

MOUNTING INSTRUCTIONS
1. DRILL ONE Ø.281 HOLE
2. MOUNT FIRE EXT. BRACKET
3. DRILL REMAINING (3) HOLES ACCORDINGLY



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Item	Ref. No.	Qty	Description
1	56416517	1	Static Strap
2	8-83-04033	1	Fire Extinguisher (Placement Shown)
3	0880-650	1	Back-up Alarm (see Options)
4	8-41-05087	1	Latch (placement shown)
5	7-41-05099	1	Brake Handle (replaces 7-41-05083)
6	NA	1	CE Serial Plate (see decals)
7	8-31-06090	2	Latch Key
8	2-95-04182	1	Nut, Hex Nyl Loc 3/8-16
9	2-00-03266	1	Fan Washer
10			Intentionally Omitted
11	2-00-03855	1	Bolt, 3/8-16 x 1.00
12	2-00-03702	6	Washer-FL .625 x .281 x .063
13	2-00-00641	4	Nut-INS-Fiber .25-20 S.S. 42 NE-040
14	2-00-00220	6	Screw-HHS .25-20 x .63 GR 8 ZN
15	2-00-03062	2	Screw, #10-24 x.063 THM
16	2-00-01246	2	Insert, #10-24 Thin Nylon
17	2-00-00426	2	Flat Washer, .500 x .219 x .063
18	2-00-03829	1	Lock Washer, Int./Ext/ Tooth

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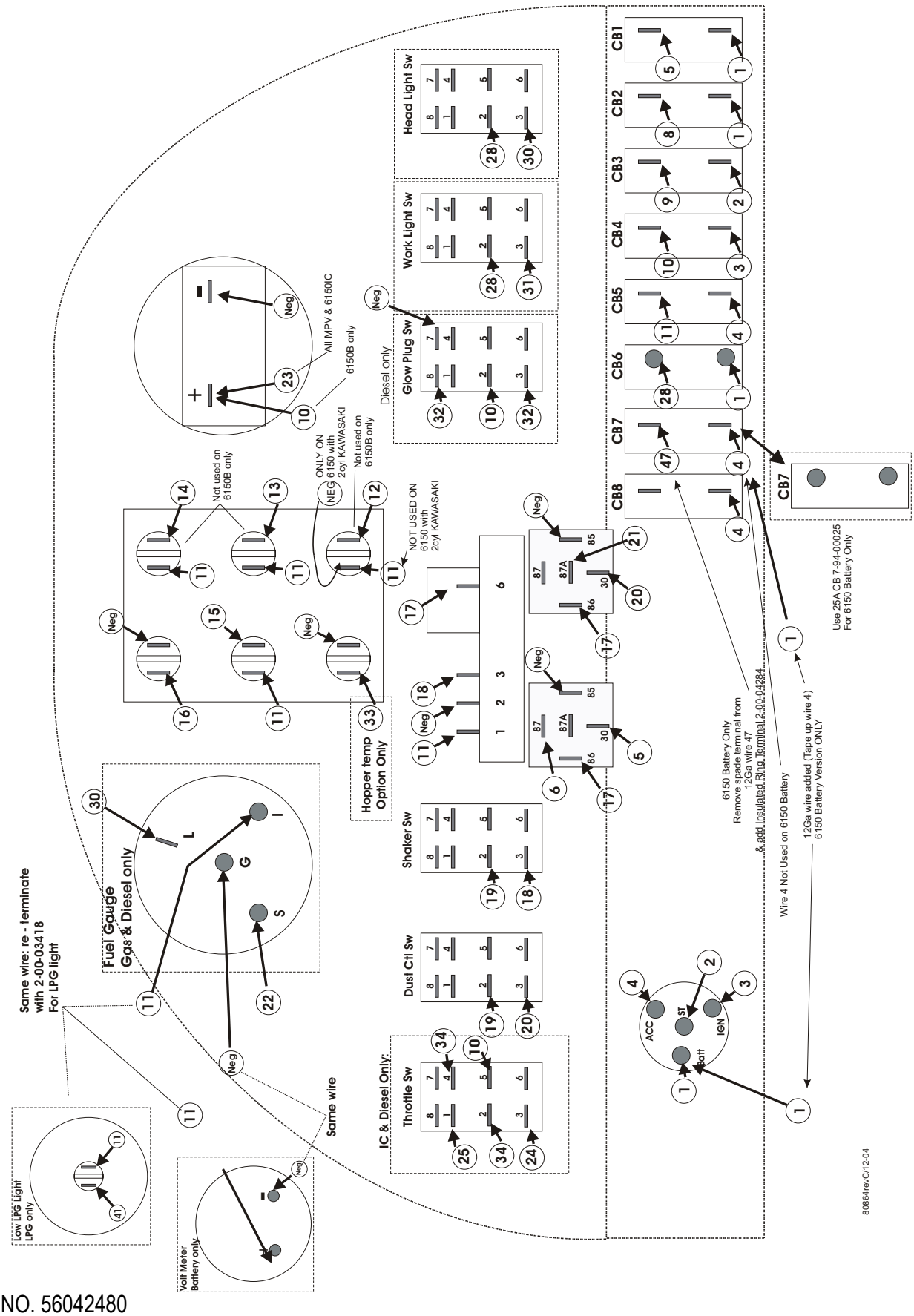

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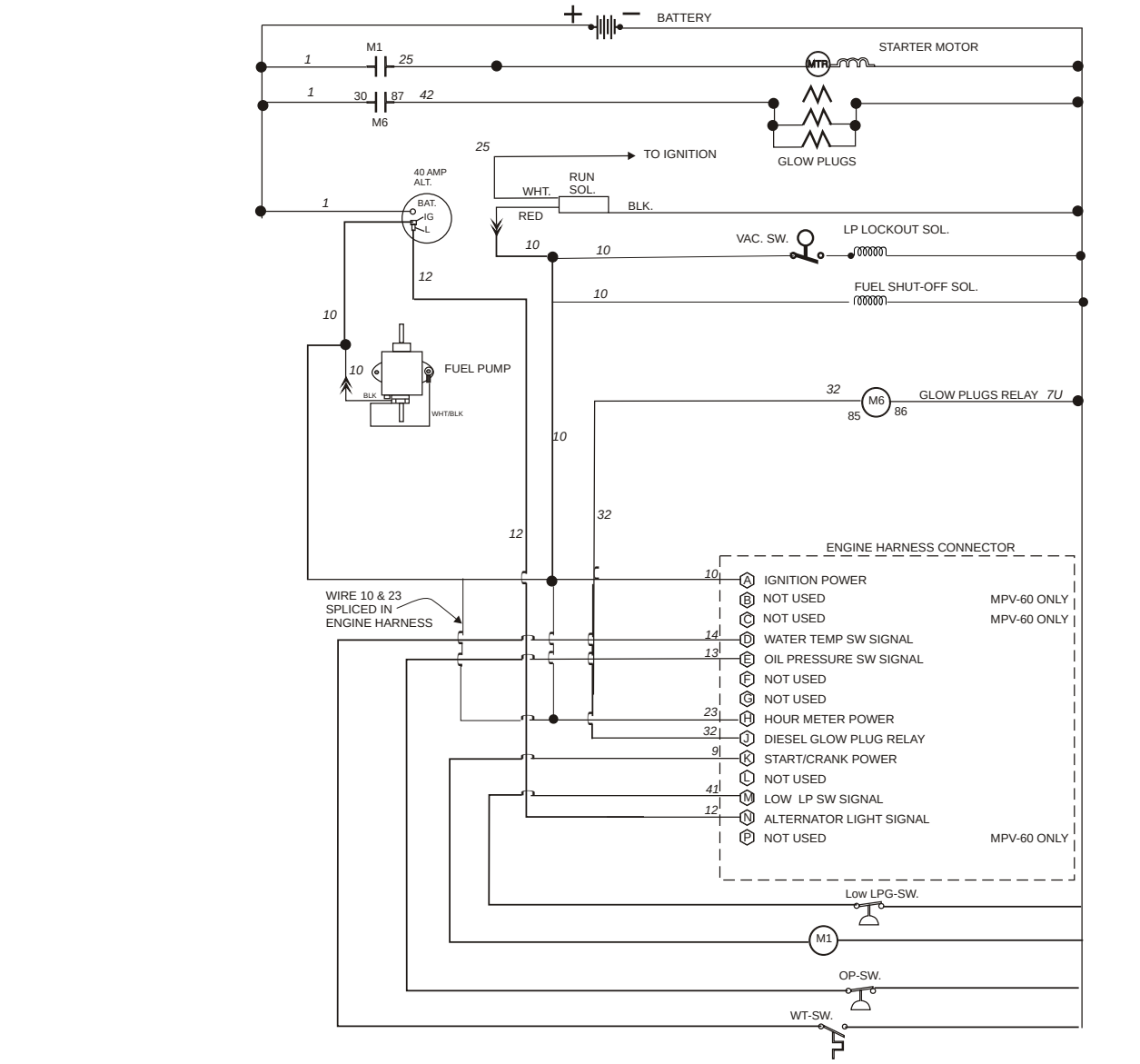

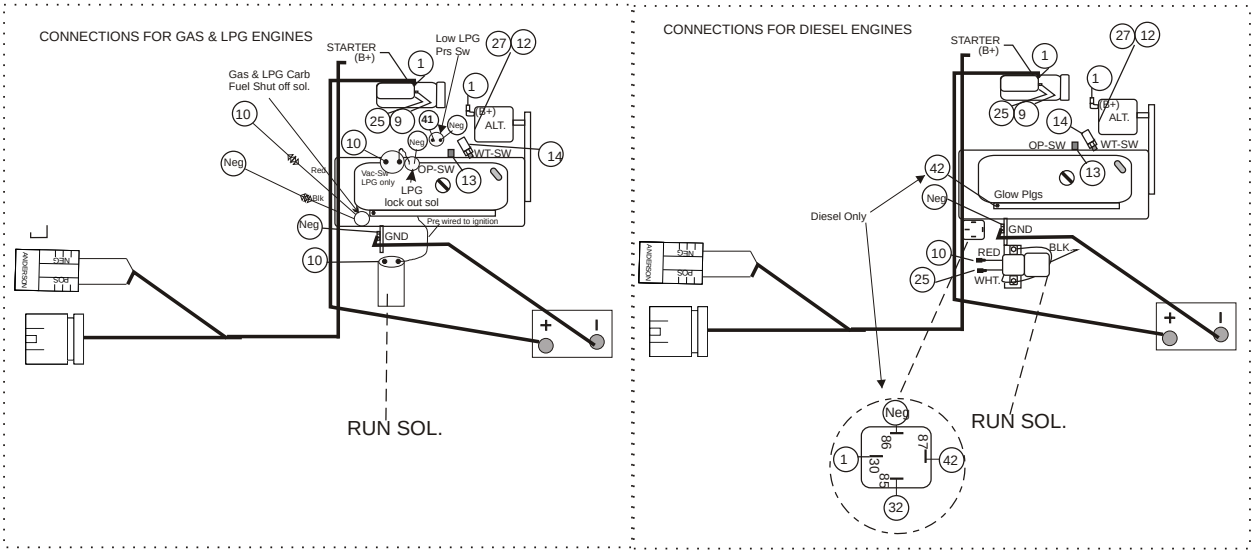

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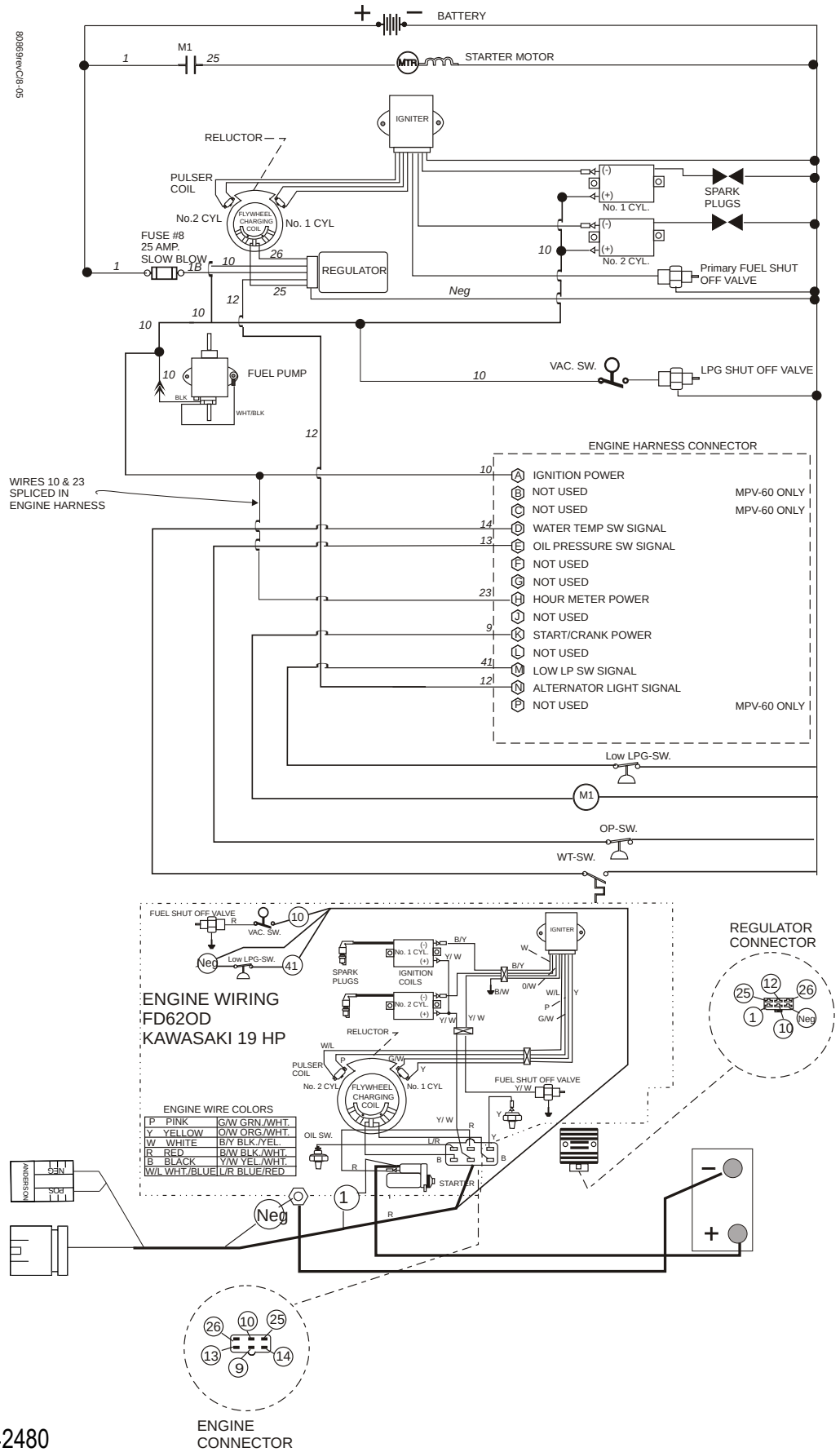

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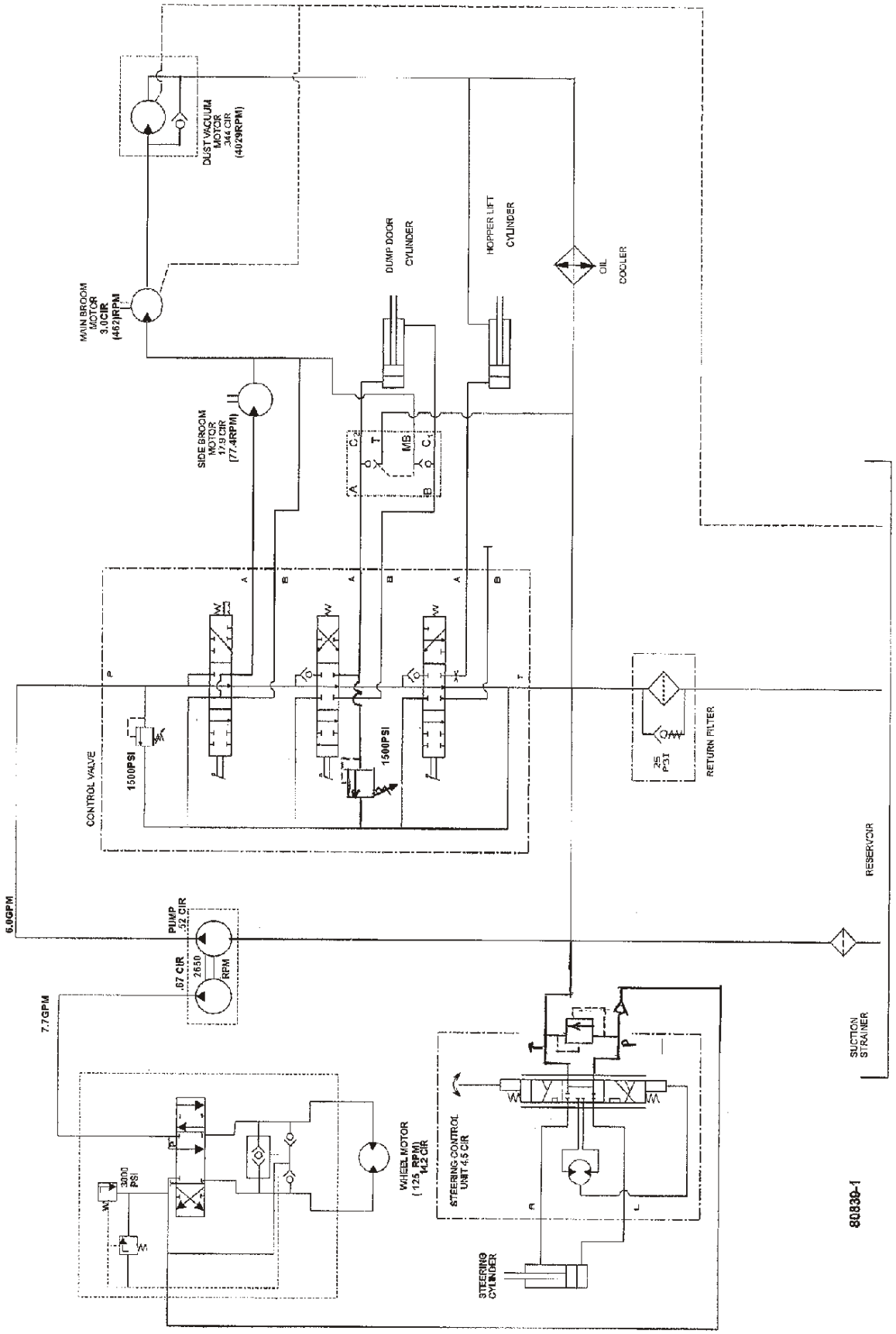

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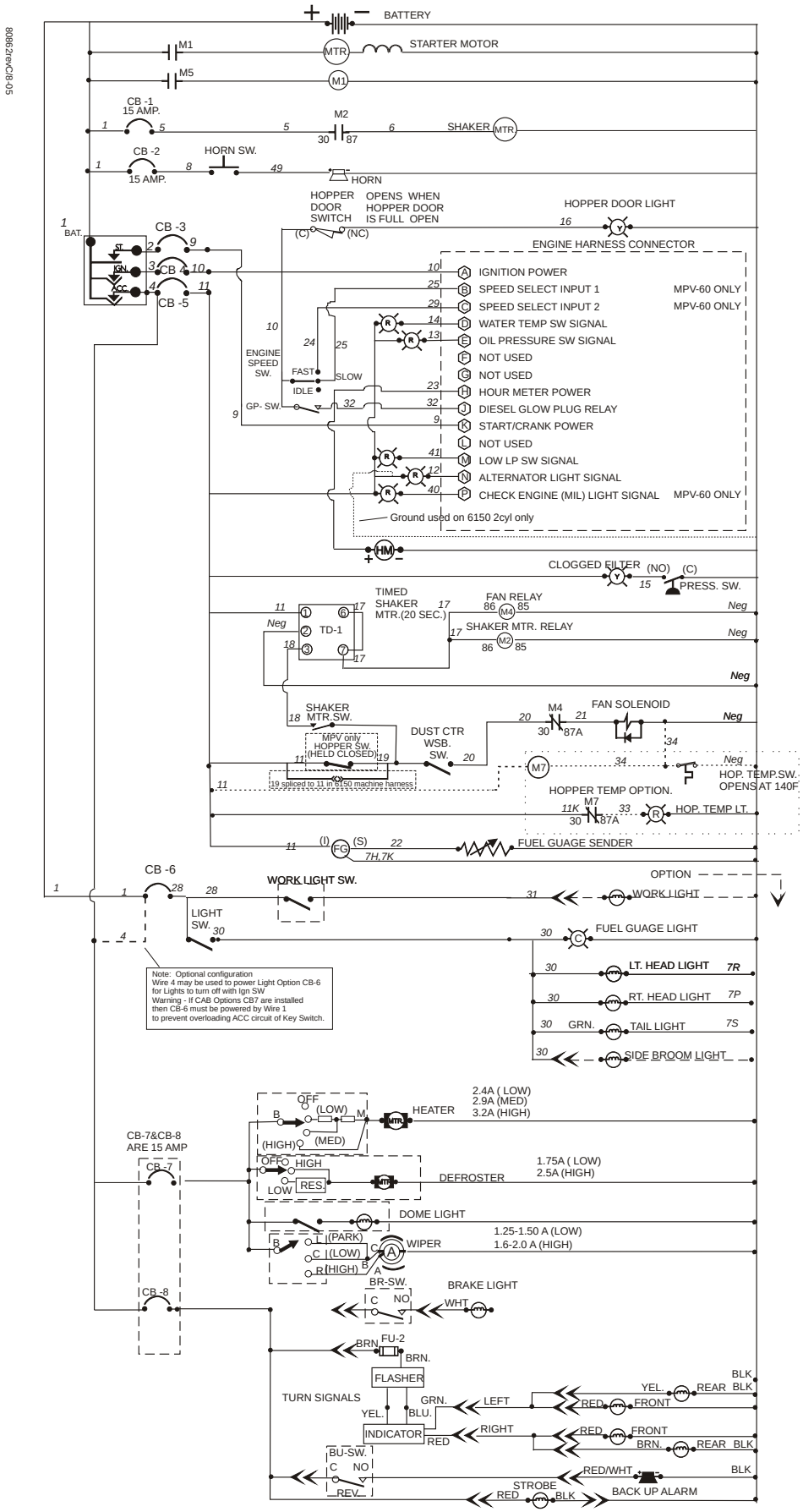

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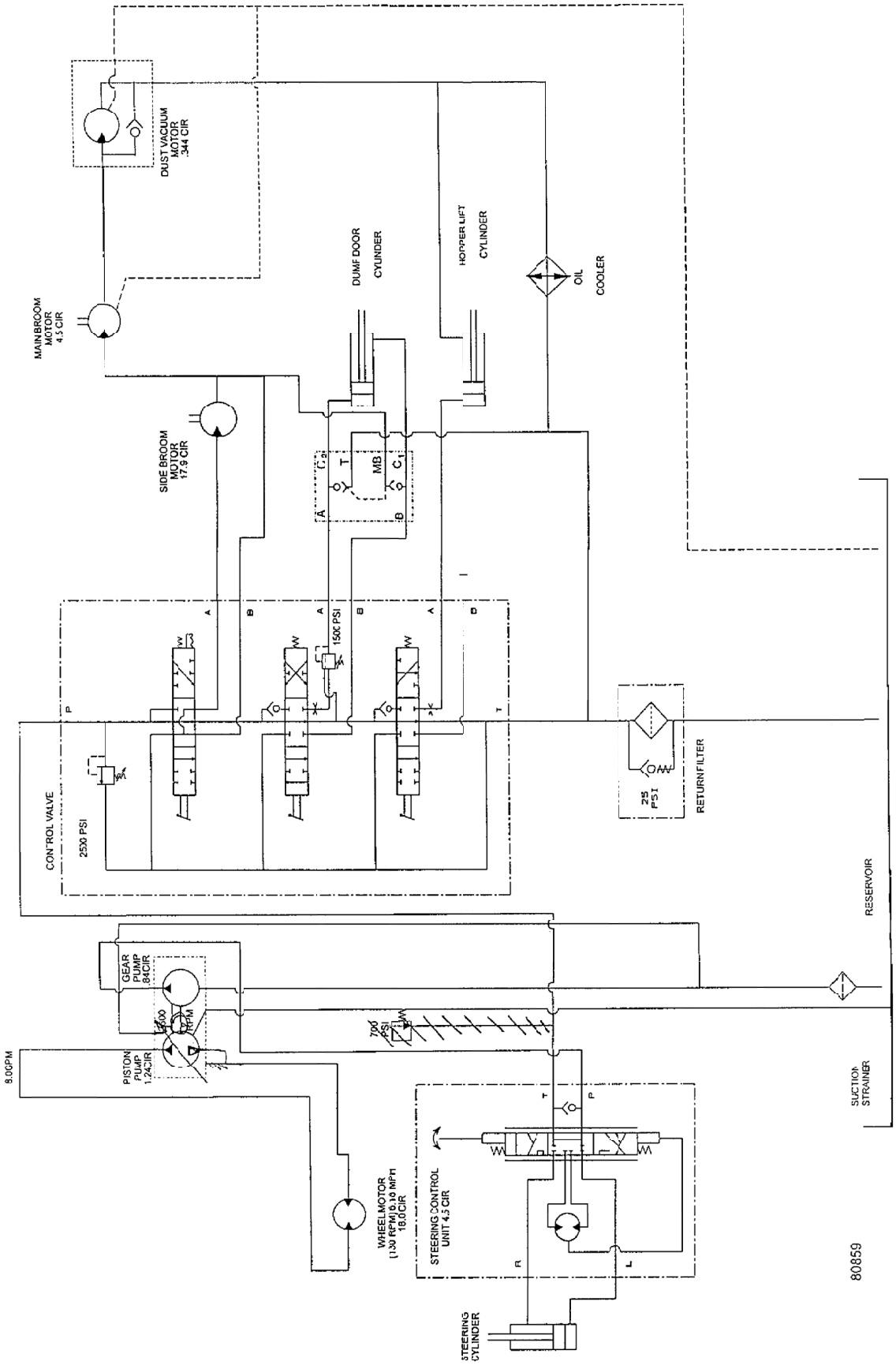

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